

TC-WA7ESA/WE505/WE605S/ WE705S/WR550Z

SERVICE MANUAL



Photo : TC-WE705S

US Model

TC-WA7ESA/WE605S/WR550Z

Canadian Model

TC-WA7ESA/WE605S

AEP Model

TC-WE505/WE705S

UK Model

TC-WE505

E Model

Australian Model

Chinese Model

TC-WE605S

* Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

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Model Name Using Similar Mechanism		TC-WA7ES/WR565/WE665S
Tape Transport Mechanism Type	DECK-A	TC-WE605S/WR550Z : TCM-190RA12CL TC-WE505 : TCM-190RA14CL TC-WA7ESA : TCM-190RA17CL TC-WE705S : TCM-190RA18C
	DECK- B	TC-WA7ESA/WE705S : TCM-190RB11C TC-WE505/WE605S/WR550Z : TCM-190RB12CL

SPECIFICATIONS

System

Recording system
4-track 2-channel stereo

Fast-winding time (approx.)
90 sec. (with Sony C-60 cassette)

High-speed fast-winding time (approx.) (TC-WA7ESA and TC-WE705S only)
45 sec. (with Sony C-60 cassette)

Bias
AC bias

Signal-to-noise ratio (at peak level and weighted with Dolby NR off)
Type I tape, Sony Type I (NORMAL): 55 dB
Type II tape, Sony Type II (HIGH): 57 dB
Type IV tape, Sony Type IV (METAL): 58 dB

S/N ratio improvement (approximate values)
With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz
With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz
With Dolby S NR on (unavailable on the TC-WE505):
10 dB at 100 Hz, 24 dB at 1 kHz

Harmonic distortion

0.4% (with Type I tape, Sony Type I (NORMAL):
160 nWb/m 315 Hz, 3rd H.D.)
1.8% (with Type IV tape, Sony Type IV (METAL):
250 nWb/m 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

Tape type

Type I tape, Sony Type I (NORMAL) 30 - 16,000 Hz (±3 dB, IEC),
20 - 17,000 Hz (±6 dB)

Type II tape, Sony Type II (HIGH) 30 - 17,000 Hz (±3 dB, IEC),
20 - 18,000 Hz (±6 dB)

Type IV tape, Sony Type IV (METAL) 30 - 19,000 Hz (±3 dB, IEC),
20 - 20,000 Hz (±6 dB),
30 - 13,000 Hz (±3 dB, -4 dB recording)

— Continued on page 2 —

STEREO CASSETTE DECK
SONY®



Wow and flutter

TC-WA7ESA/WE705S/WE605S/ WR550Z	TC-WE505
±0.13% W. Peak (IEC)	±0.14% W. Peak (IEC)
0.07% W. RMS (NAB)	0.08% W. RMS (NAB)
±0.18% W. Peak (DIN)	±0.19% W. Peak (DIN)

Variable pitch range (approx.) (TC-WE705S and TC-WE505 only)
-30 to +30%

Inputs

Line inputs (phono jacks)
Sensitivity : 0.16 V
Input impedance : 47 kilohms

Outputs

Line outputs (phono jacks)
Rated output level : 0.5 V at a load impedance of
47 kilohms
Load impedance : Over 10 kilohms

Headphones (stereo phone jack)
Output level : 0.25 mW at a load impedance of
32 ohms

General**Power requirements**

Where purchased	Power requirements
US, Canadian, Panama model	120V AC, 60Hz
AEP, UK, German, Malaysia, Singapore, Chinese model	220 - 230V AC, 50/60Hz
Australian model	240V AC, 50/60Hz
E model	120/220/240V AC, 50/60Hz

Power consumption
26W

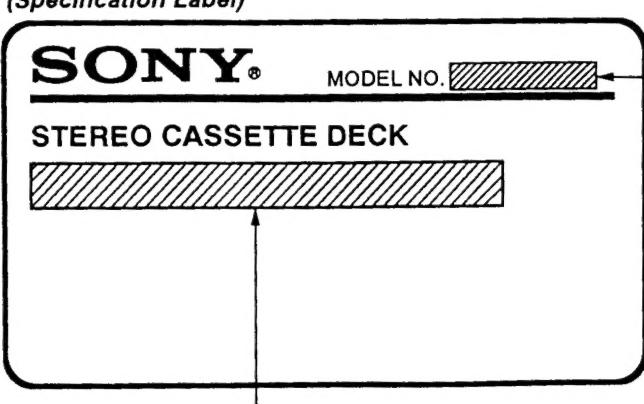
Dimensions (approx) (w/h/d)
UK, and Australian model :
430 x 120 x 303 mm (w/h/d)
(17 x 4 3/4 x 12 inches)
EXCEPT UK, Australian model :
430 x 120 x 290 mm (w/h/d)
(17 x 4 3/4 x 11 1/4 inches)
including projecting parts and controls

Mass (approx.)
4.2 kg (9 lbs 5 oz)

Supplied accessories
Audio connecting cords (2 phono plugs - 2 phono
plugs) (2)
Remote commander (RM-J910) (1) :
(WA7ESA : Canadian model)

Design and specifications are subject to change without
notice.

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MODEL IDENTIFICATION (Specification Label)		
		TC-WA7ESA
		TC-WE505
		TC-WE605S
		TC-WE705S
		TC-WR550Z
US, Canadian, Panama model : AC 120V 60Hz		
Australian model : AC 240V-50/60Hz		
AEP, UK, Malaysia, Singapore, Chinese, German model : AC 220-230V-50/60Hz		
E model : AC120/220/240V-50/60Hz		

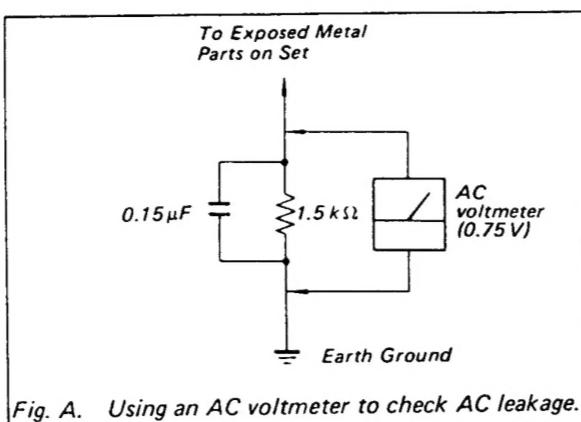
SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

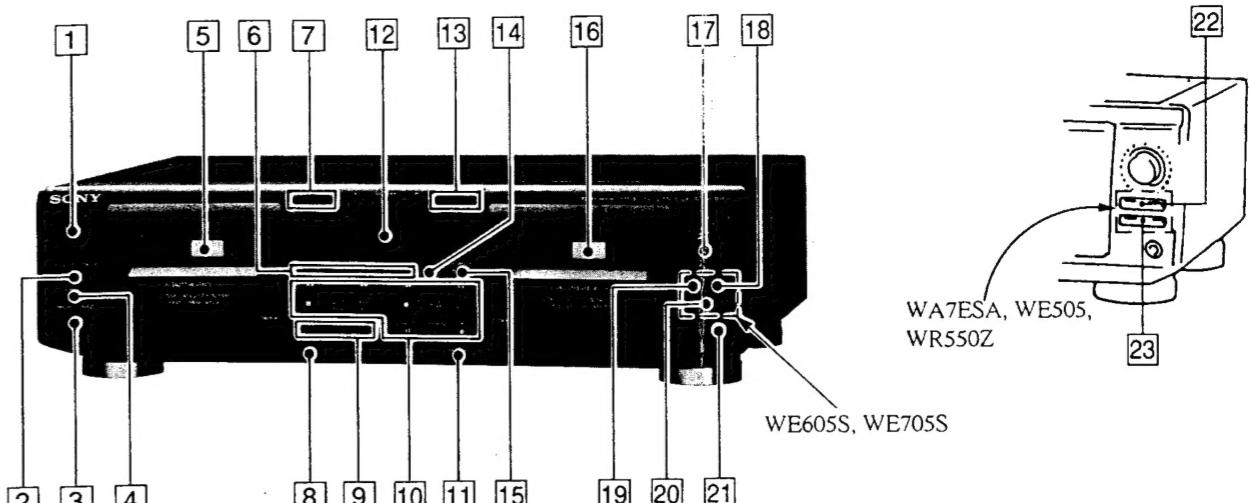
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamper). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



SECTION 1 GENERAL

1-1. IDENTIFYING THE PARTS



FRONT PANEL

1	POWER switch	11	⏏ (eject) button (deck-B)
2	DIRECTION MODE switch	12	Display panel
3	PITCH control	13	COUNTER buttons (deck-B) RESET button MEMORY button
4	PITCH control ON/OFF switch	14	AUTO CAL button
5	Deck-A	15	SYNCHRO DUBBING buttons HIGH button NORMAL button
6	RMS™ operation buttons RMS/START buttons SET buttons CHECK buttons DISPLAY buttons	16	Deck-B
7	COUNTER buttons (deck-A) RESET button MEMORY button	17	AUTO REC (recording) LEVEL control
8	⏏ (eject) button (deck-A)	18	ARL button
9	DOLBY NR switches OFF/ON/FILTER ON switch B/C/S switch	19	FADER button
10	Tape operation buttons ◀◀(leftward fastwinding)/AMS™/ RMS™ - button ▶▶(rightward fastwinding)/AMS™/ RMS™ + button ■(stop)/(RMS™) CLEAR button ◀(reverse play)/(RMS™) BACK button ▶(forward play)/(RMS™) FRONT button	20	SYNCHRO button
11	PAUSE button	21	PHONES jack (stereo phone jack)
12	REC MUTE (record muting) button	22	ARL button
13	REC (record muting) button	23	FADER button

WE60SS, WE70SS WA7ESA, WES05, WR550Z

Random Music Sensor Automatic Music Sensor

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

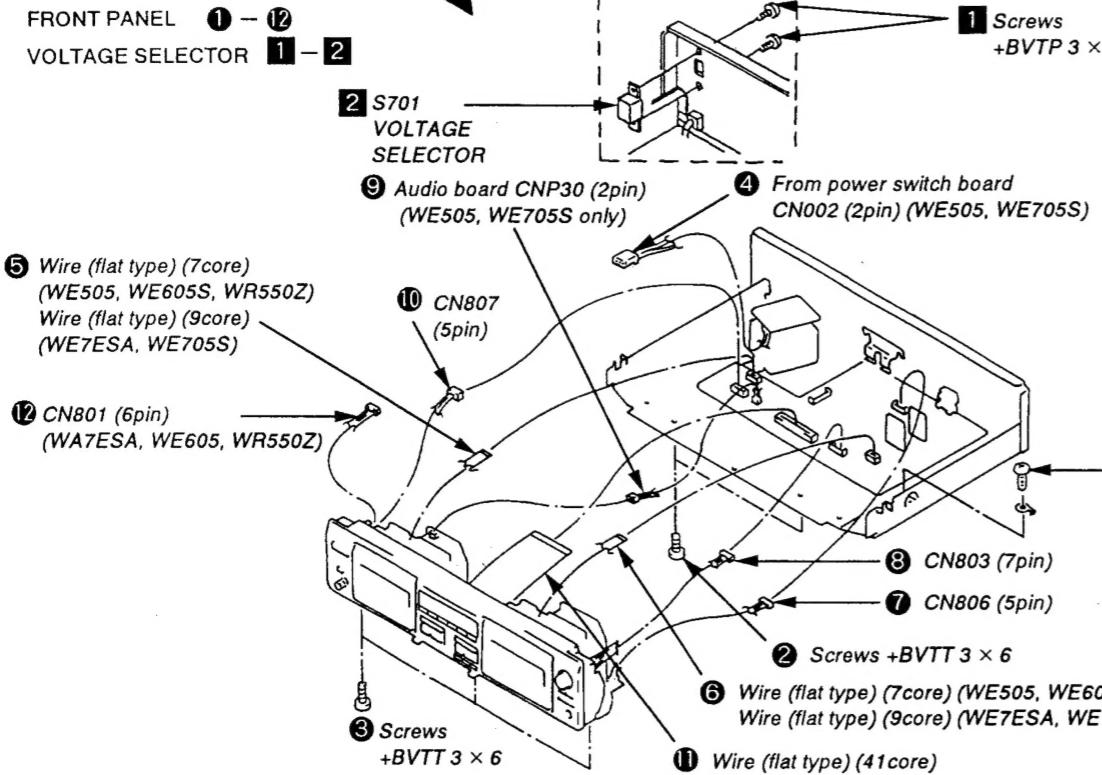
SECTION 2 DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

CASE

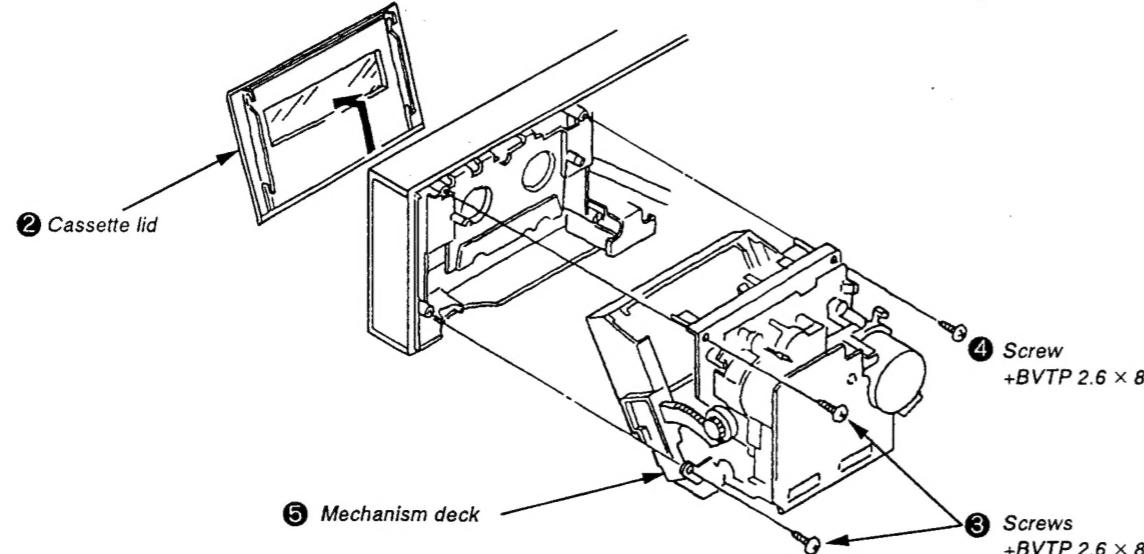
Unscrew the four case attachment screws M3 × 8 and remove the case.

2-1. FRONT PANEL REMOVAL

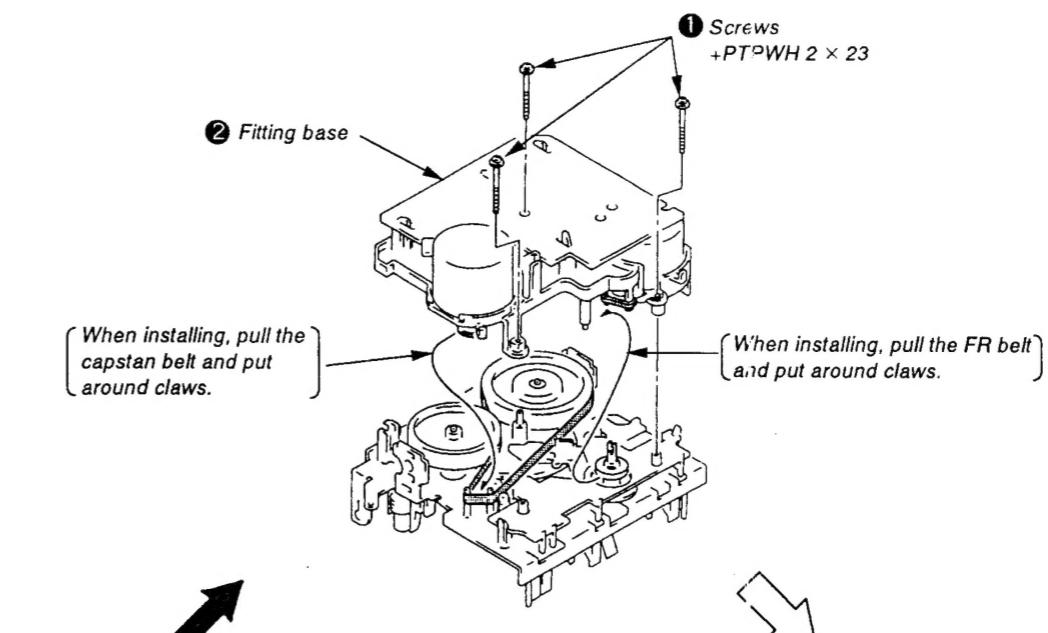


2-2. MECHANISM DECK

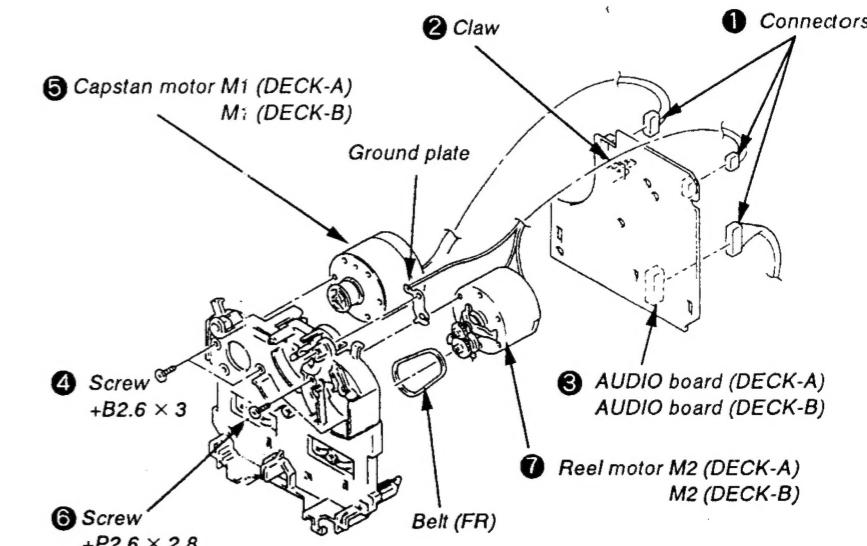
① Press the EJECT button.



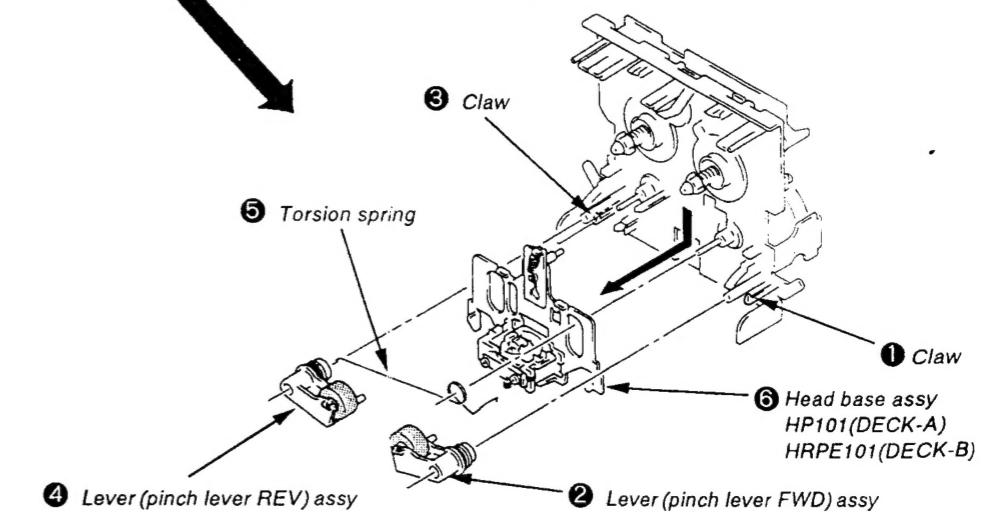
2-3. CAPSTAN MOTOR, REEL MOTOR



Remove the cassette holder



2-4. HEAD, PINCH ROLLER



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback/erase head	pinch roller
rubber belts	capstan
idlers	
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	30 to 65g·cm (0.42 to 0.9 oz·inch)
Forward back tension	CQ-102C	DECK-A : 1 to 6g·cm (0.014 to 0.083 oz·inch) DECK-B : 2 to 9g·cm (0.03 to 0.12 oz·inch)
Reverse	CQ-102RC	30 to 65g·cm (0.42 to 0.9 oz·inch)
Reverse back tension	CQ-102RC	1 to 6g·cm (0.014 to 0.083 oz·inch)
FF/REW	CQ-201B	70 to 120g·cm (0.98 to 1.66 oz·inch)

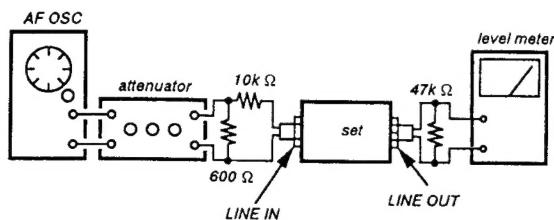
3-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication.
(Be sure to make playback adjustment at first.)
2. The adjustments and measurement should be performed for both L-CH and R-CH.
 - Switch position

DOLBY NR switch	: OFF
DIRECTION MODE switch	: \Rightarrow
 - Standard record position :
Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

— Record Mode —



Standard Input Level

Input terminal	LINE IN
source impedance	10kΩ
input signal level	0.5V (-3.8dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47kΩ
output signal level	0.5V (-3.8dB)

Test Tape

Tape	Contents	Use
P-4-A100	10kHz, -10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

0dB=0.775V

Test Mode

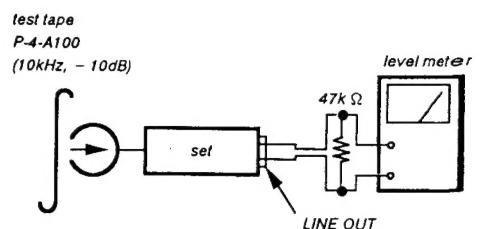
1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch.
At first, all the fluorescent tubes light up, then the system returns to normal display. (However, "0,00" is not displayed on the counter.)
2. To release the test mode, remove the short plug and turn off the power switch.
3. Remove the short plug after completion of adjustment.

Record/Playback Head Azimuth Adjustment

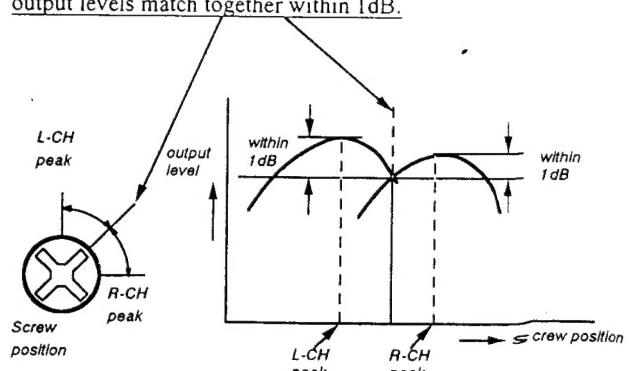
DECK-A **DECK-B**

Procedure :

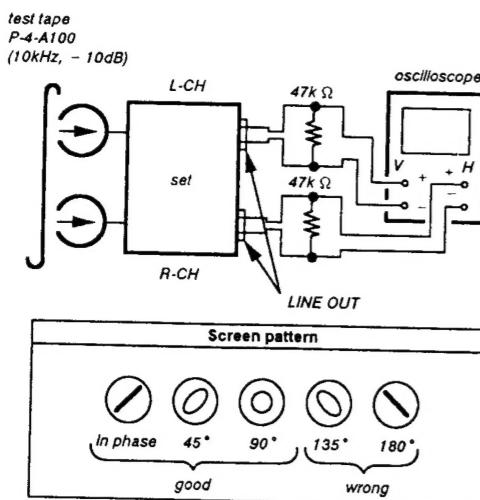
1. Forward playback Mode



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

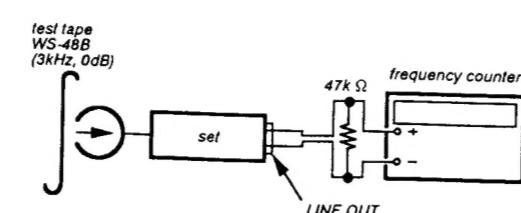


3. Playback Mode



Tape Speed Adjustment **DECK-A** **DECK-B**

Procedure :
- Forward Playback Mode -



(High speed adjustment)

1. Set to test mode. (Refer to page 7)
2. Set to FWD playback mode.
3. Keep on pressing the HIGH SPEED DUBBING switch.
4. Adjust RV72 so that the frequency counter reading becomes $6,000 \pm 20\text{Hz}$.
5. Release test mode after adjustment is completed.

(Normal speed adjustment)

1. Set to FWD playback mode.
2. Adjust RV71 so that the frequency counter reading becomes $3,000 \pm 10\text{Hz}$.

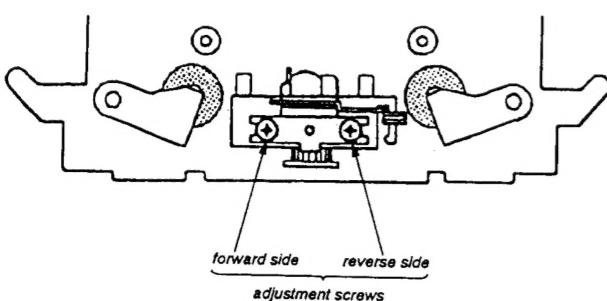
(Pitch control adjustment) (TC-WE505/WE705S only)

1. Turn ON the PITCH CONTROL switch.
2. Set RV902 to mechanical center.
3. Set to FWD playback mode.
4. Adjust RV601 so that the frequency counter reading becomes $3,000 \pm 10\text{Hz}$.

Frequency difference between the beginning and the end of the tape should be within 3%.

Frequency difference between the deck A and deck B the beginning of the tape should be within 1.5%.

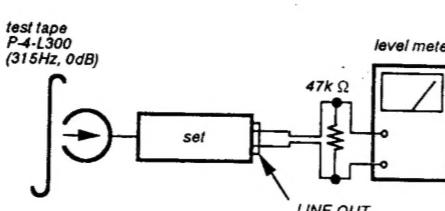
Adjustment Location : - record/playback head -



Adjustment Location : AUDIO board, MAIN board.
(See page 10)

Playback Level Adjustment **DECK-A** **DECK-B**

Procedure :
- Forward Playback Mode -



Adjust RV11(L-CH) and RV21(R-CH) so the level meter reading becomes the adjustment limits below.

Adjustment Value :

LINE OUT level : $-7.7 \pm 0.5\text{dB}$ (0.301 to 0.338V)

Level difference between channels : within 0.5dB

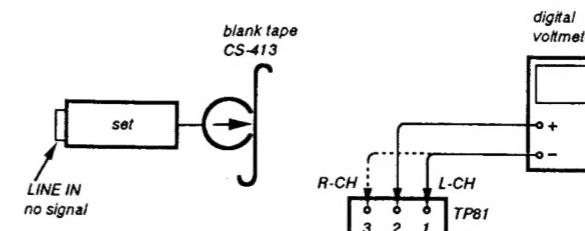
Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location : AUDIO board. (See page 10)

Bias Consumption Current Adjustment **DECK-B**

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T81, T91).

Procedure :
() : R-CH



1. Connect the digital voltmeter to test point TP81.

2. Set RV81(RV91) to mechanical center.

3. Set to FWD record mode.

4. Adjust T81(T91) so that the digital voltmeter reading becomes minimum.

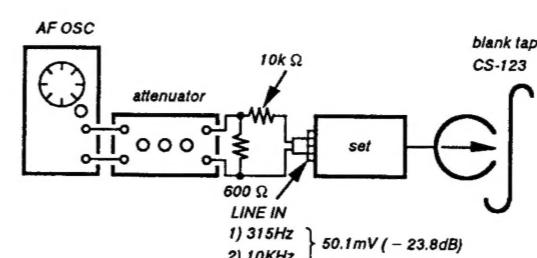
Adjustment Value : Maximum 220mV

Adjustment Location : AUDIO board. (See page 10)

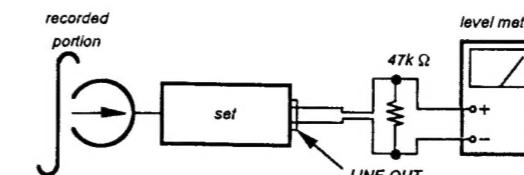
Record Bias Adjustment **DECK-B**

Setting :
REC LEVEL control : standard record position (Refer to page 7.)

Procedure :
1. Record Mode



2. Playback Mode



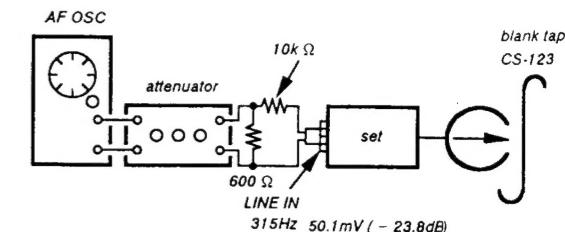
Confirm that the 10kHz playback output is $0 \pm 0.5\text{dB}$ relative to the 315Hz output. If necessary, adjust RV81 (L-CH), RV91(R-CH) and repeat the steps given above.

Adjustment Location : AUDIO board. (See page 10)

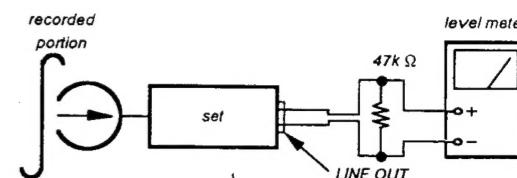
Record Level Adjustment **DECK-B**

Setting :
REC LEVEL control : standard record position (Refer to page 7.)

Procedure :
1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.

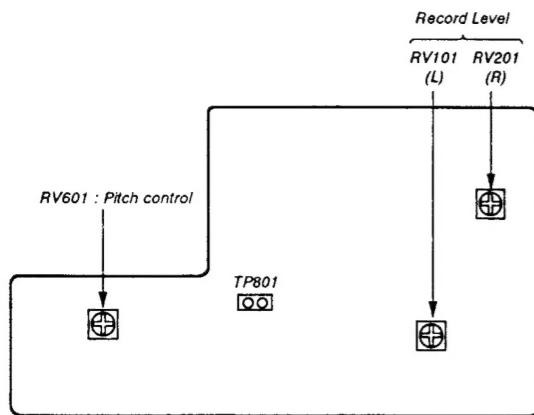
If necessary, adjust RV101(L-CH), RV201(R-CH) and repeat the steps 1 and 2.

Adjustment Value :

LINE OUT level : $-23.8 \pm 0.5\text{dB}$ (47.2 to 53mV)

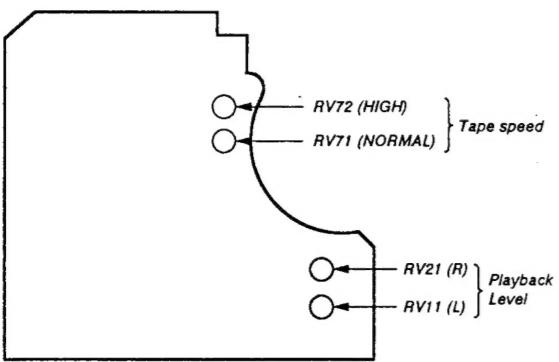
Adjustment Location : MAIN board.
(See page 10)

[MAIN BOARD]



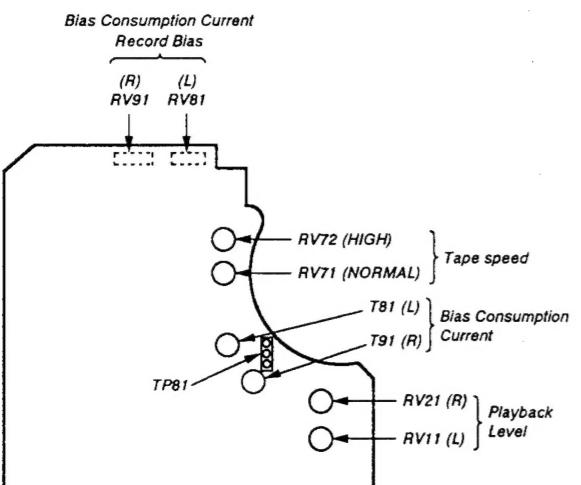
DECK-A :

[AUDIO BOARD]



DECK-B :

[AUDIO BOARD]



SECTION 4
EXPLANATION OF IC TERMINALS

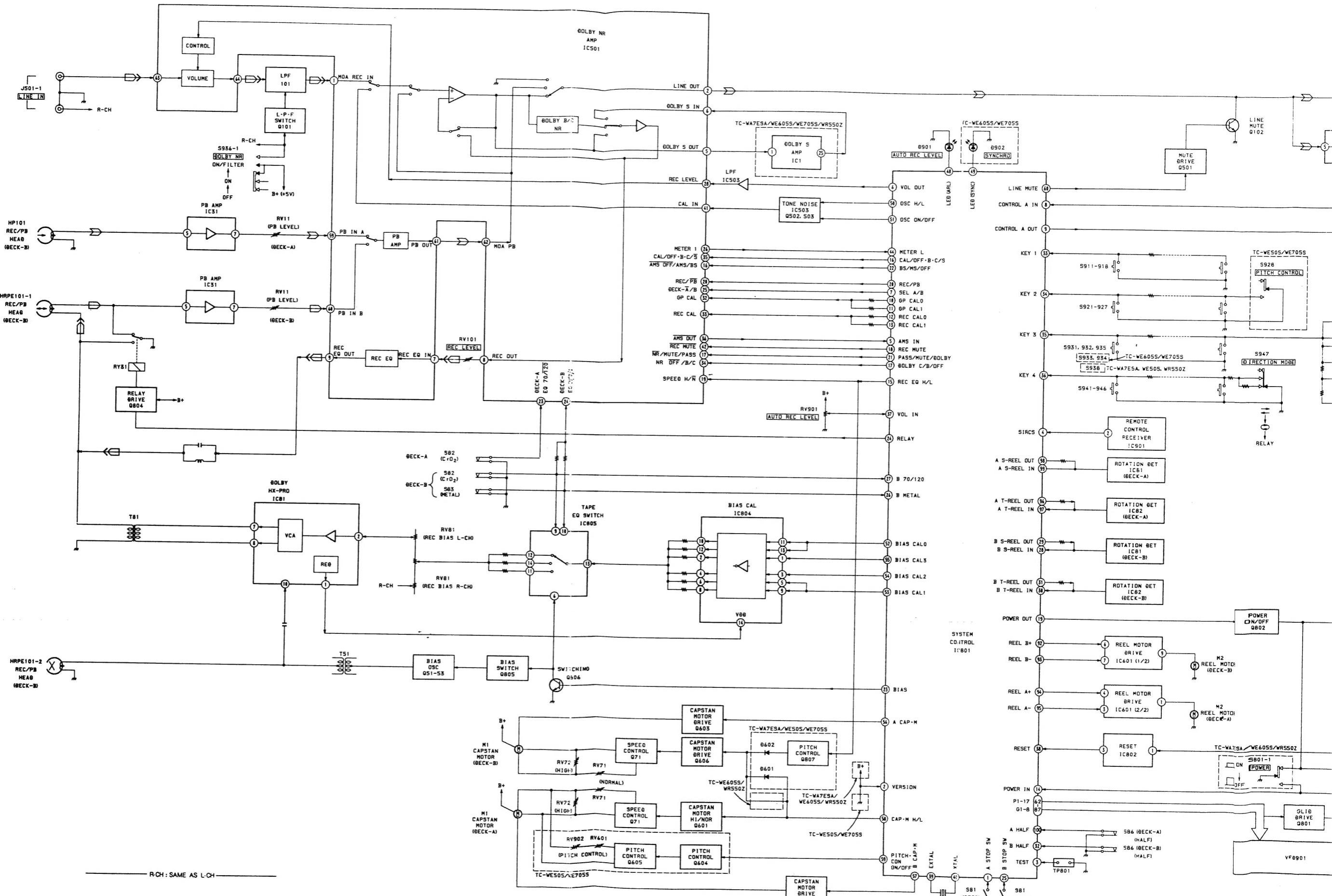
IC801 CXP8224-043Q (SYSTEM CONTROL/VFD DRIVE)

Pin No.	Pin name	I/O	Description
1	A STOP SW	I	Mechanism stop switch for deck-A. H : Stop
2	VERSION	I	Version select terminal.
3	TEST	I	Test mode select terminal. L : Test
4	SIRCS	I	Sircs signal input terminal.
5	AMS IN	I	AMS signal input terminal. L : Music present.
6	VOL OUT	O	REC level control output (PWM).
7	SEL A/B	O	Playback A/B selector. L : A, H : B
8	CONTROL A IN	I	Control A input.
9	CONTROL A OUT	O	Control A output.
10	GP CAL 0	O	GEQ CAL-0 output for auto calibration.
11	GP CAL 1	O	GEQ CAL-1 output for auto calibration.
12	REC CAL 0	O	Recording CAL-0 output for auto calibration.
13	REC COL 1	O	Recording CAL-1 output for auto calibration.
14	POWER IN	I	Power OFF Detection terminal.
15	REC EQ H/L	O	REC EQ high/normal select. L : Normal.
16	CAL/OFF, B, C/S	O	Audio Selector. H : CAL/Open : NR-OFF, B, C/L : NR-S.
17	DOLBY C/B/OFF	O	Dolby NR Selector. H : C/Open : B/L : OFF.
18	REC MUTE	O	Recording mute output. L : Mute ON, H : Mute OFF.
19	POWER OUT	O	Power hold output.
20	REC/PB	O	Dolby NR mode selector. L : Playback, H : Record.
21	PASS/MUTE/DOLBY	O	Audio selector. L : Dolby/Open : Mute/H : Pass.
22	BS/AMS/OFF	O	AMS amp selector. L : OFF/Open : AMS/H : OFF.
23	BIAS	O	Bias ON/OFF output. L : OFF, H : ON.
24	RELAY	O	Relay record/playback selector. L : Record.
25	B STOP SW	I	Mechanism stop switch for deck-B.
26	B METAL	I	Deck-B metal tape detection.
27	B 70/120	I	70/120 μ tape selector (deck-B). L : with claw.
28	B S-REEL IN	I	Supply reel rotation detection at deck-B.
29	B S-REEL OUT	O	Supply reel rotation detection at deck-B.
30	B T-REEL IN	I	Take-up reel rotation detection at deck-B.
31	B T-REEL OUT	O	Take-up reel rotation detection at deck-B.
32	B-HALF	I	Half pawl input at deck-B. (A/B converter)
33	KEY 1	I	KEY 1 input (A/D converter).
34	KEY 2	I	KEY 2 input (A/D converter).
35	KEY 3	I	KEY 3 input (A/D converter).
36	KEY 4	I	KEY 4 input (A/D converter).
37	VOL IN	I	Record volume input. (A/D converter)
38	RESET	I	System reset input terminal.
39	EXTAL	I	System clock oscillator input. (10.0MHz)
40	EXTAL	O	System clock oscillator output. (10.0MHz)

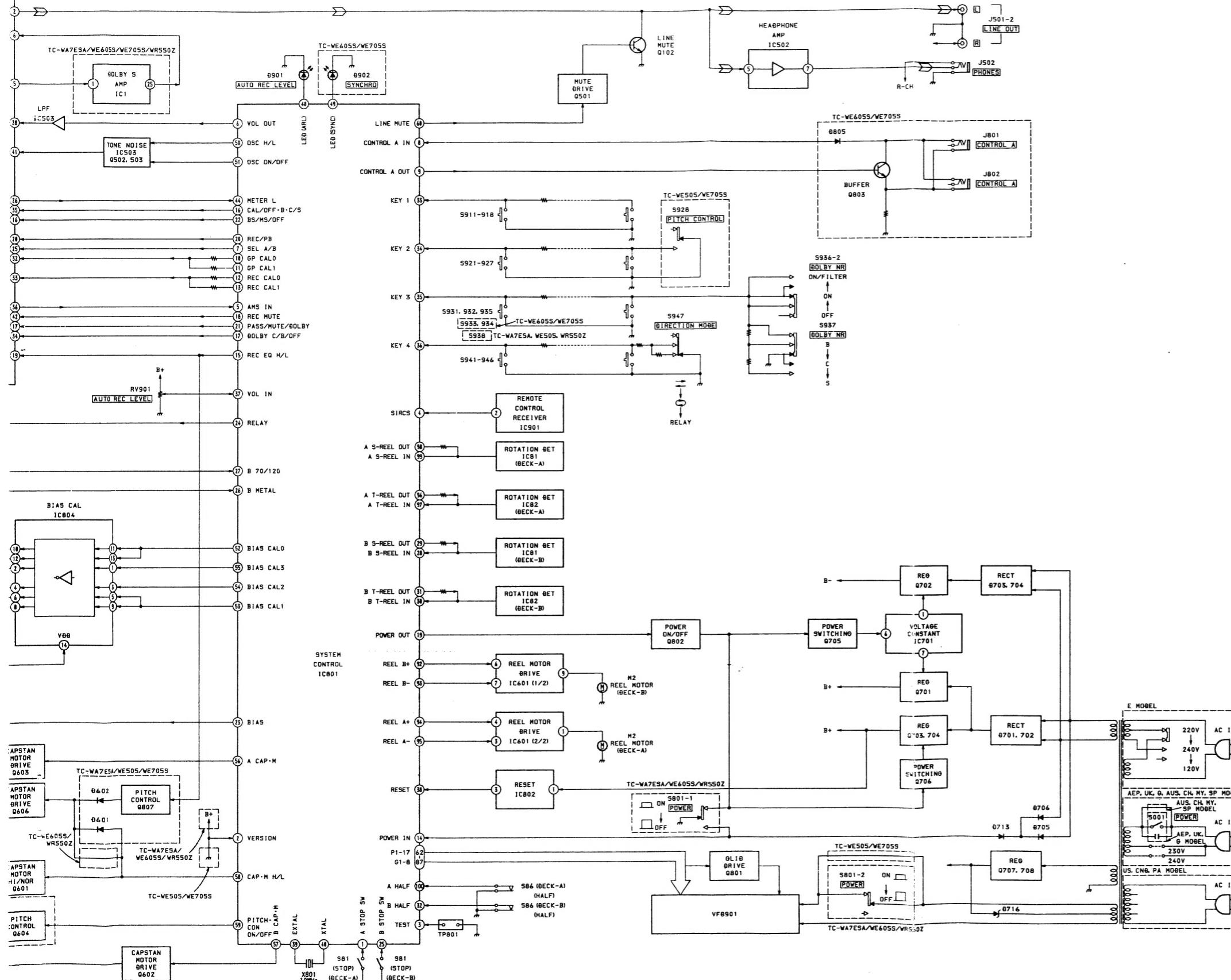
Pin No.	Pin name	I/O	Description
41	Vss	—	Ground.
42	TX	—	Not used. (Ground connection)
43	TEX	—	Not used. (Ground connection)
44	METER L	I	Meter L-CH input. (A/D converter)
45	METER R	I	Meter R-CH input. (A/D converter)
46	AVREF	I	Reference voltage input for A/D converter.
47	AVss	—	Ground for A/D converter.
48	LED (ARL)	O	ARL LED ON/OFF driver. H : ON.
49	LED (SYNC)	O	CD synchro LED ON/OFF drive. H : ON.
50	OSC H/L	O	OSC frequency H/L selection for auto calibration.
51	OSC ON/OFF	O	OSC ON/OFF output for auto calibration.
52	BIAS CAL 0	O	EQ bias CAL-0 output for auto calibration.
53	BIAS CAL 1	O	EQ bias CAL-1 output for auto calibration.
54	BIAS CAL 2	O	EQ bias CAL-2 output for auto calibration.
55	BIAS CAL 3	O	EQ bias CAL-3 output for auto calibration.
56	A CAP. M	O	Capastan motor ON/OFF control at deck-A. H : ON.
57	B CAP. M	O	Capastan motor ON/OFF control at deck-B. H : ON.
58	CAP. M H/L	O	Capastan motor high/normal selector. L : High.
59	PITCH. CON ON/OFF	O	Pitch control ON/OFF. H : ON.
60	LINE MUTE	O	Line mute ON/OFF output. L : Mute.
61 – 77	P17 – P1	O	VFD segment drive.
78 – 85	G1 – G8	O	VFD grid drive.
86	G6, G7	O	
87	G7, G8	O	
88	VFDP	—	VFD power. (– 28V)
89	VDD	—	Power supply. (+5V)
90	NC	—	Not used. (VDD connection)
91	Vss	—	Ground.
92	REEL B +	O	Reel motor (+) output at deck-B.
93	REEL B –	O	Reel motor (–) output at deck-B.
94	REEL A +	O	Reel motor (+) output at deck-A.
95	REEL A –	O	Reel motor (–) output at deck-A.
96	A T-REEL OUT	O	Take-up reel rotation detection at deck-A.
97	A T-REEL IN	I	Take-up reel rotation detection at deck-A.
98	A S-REEL OUT	O	Supply reel rotation detection at deck-B.
99	A S-REEL OUT	I	Supply reel rotation detection at deck-B.
100	A HALF	I	Half pawl input at deck-A. L : with claw.

SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM



• CIRCUIT BOARDS LOCATION



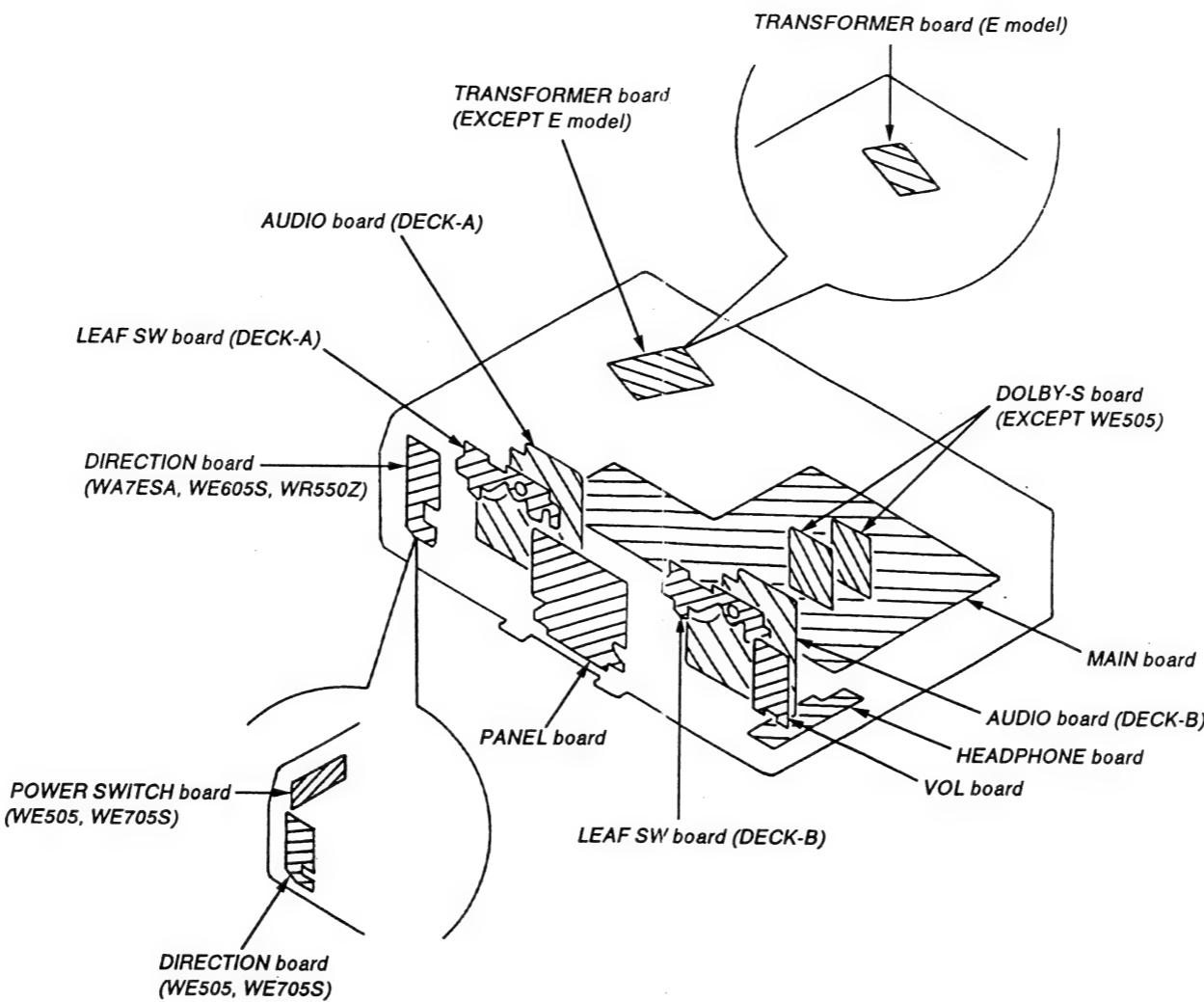
• Signal path.

- : PB (DECK A)
- : PB (DECK B)
- : REC (DECK B)

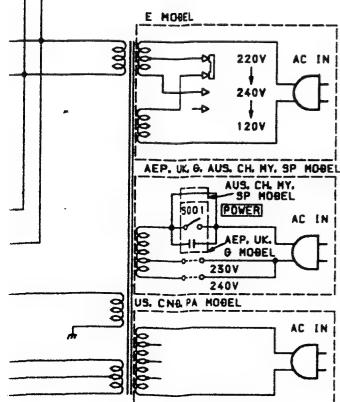
• Abbreviation

- CND : Canadian
- G : German
- AUS : Australian
- CH : Chinese
- SP : Singapore
- MY : Malaysia
- PA : Panama

• CIRCUIT BOARDS LOCATION



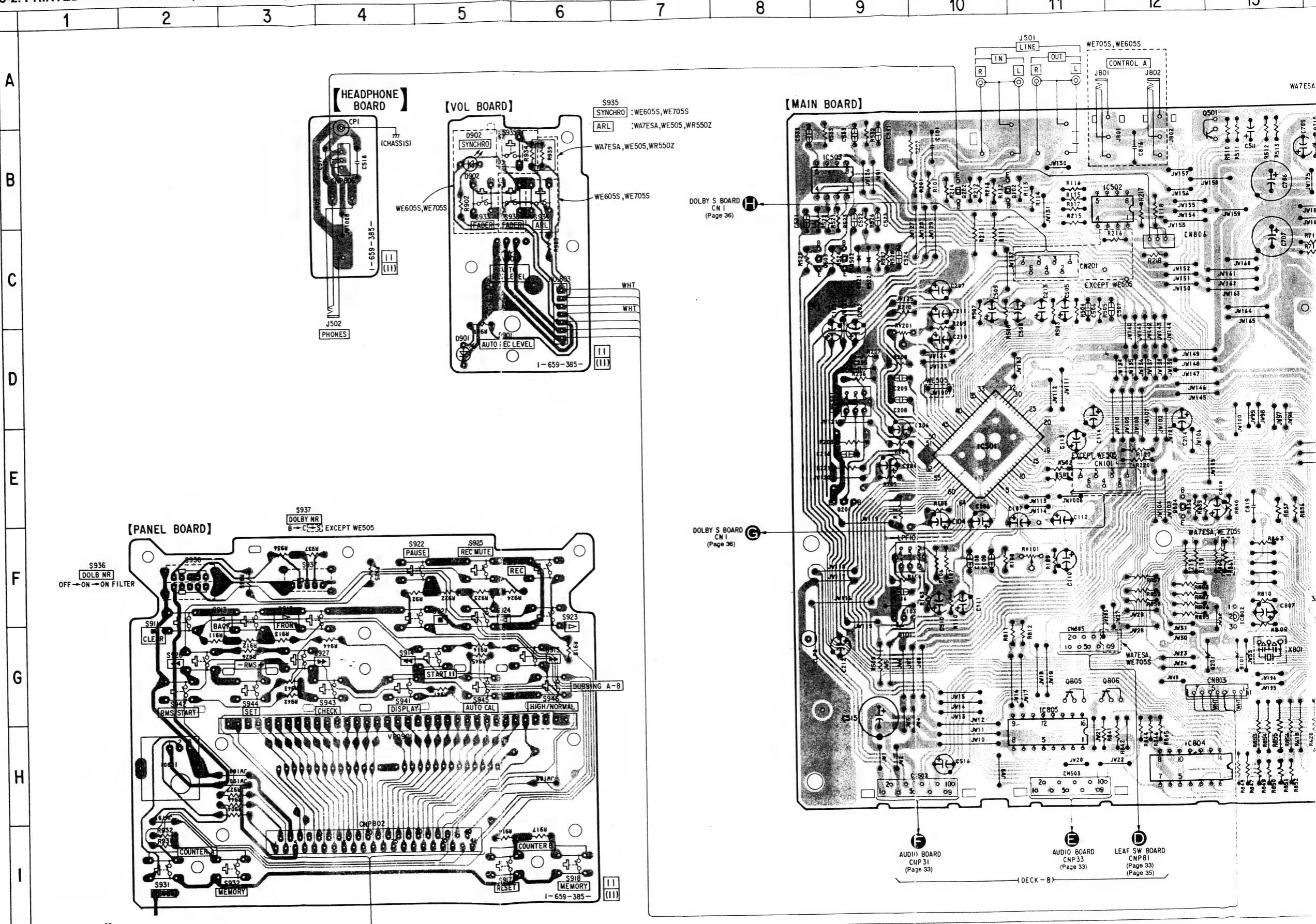
- Signal path.
 - ▷ : PB (DECK A)
 - ▷ : PB (DECK B)
 - ▷ : REC (DECK B)
- Abbreviation
 - CND : Canadian
 - G : German
 - AUS : Australian
 - CH : Chinese
 - SP : Singapore
 - MY : Malaysia
 - PA : Panama

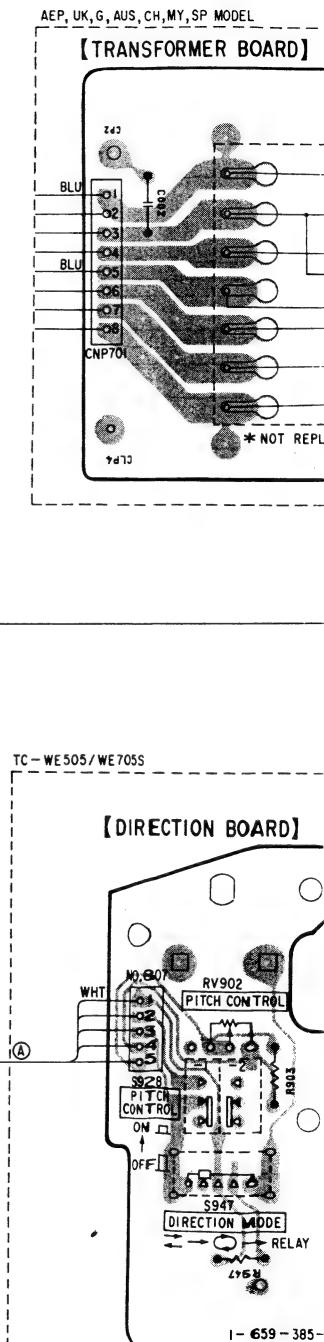
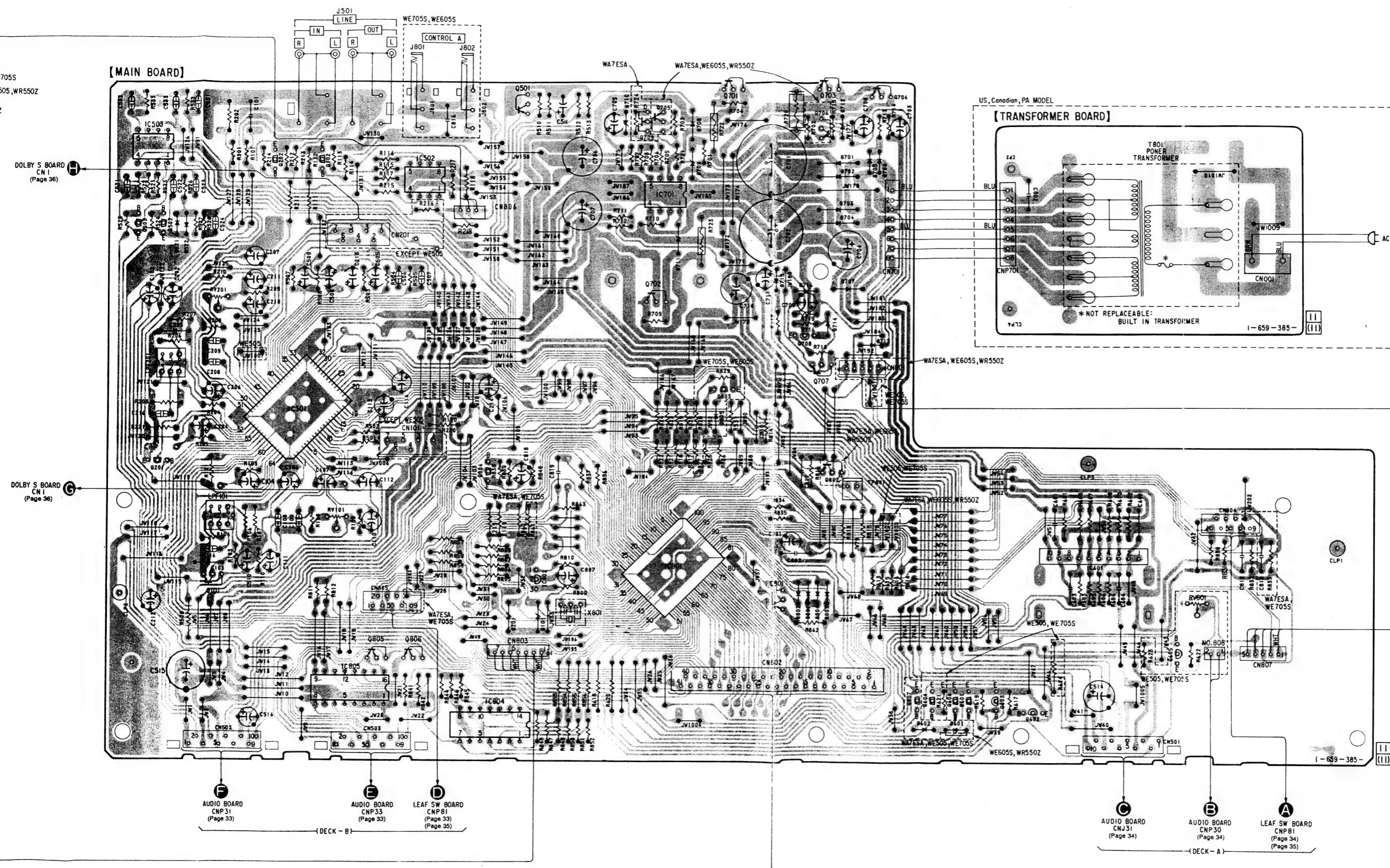


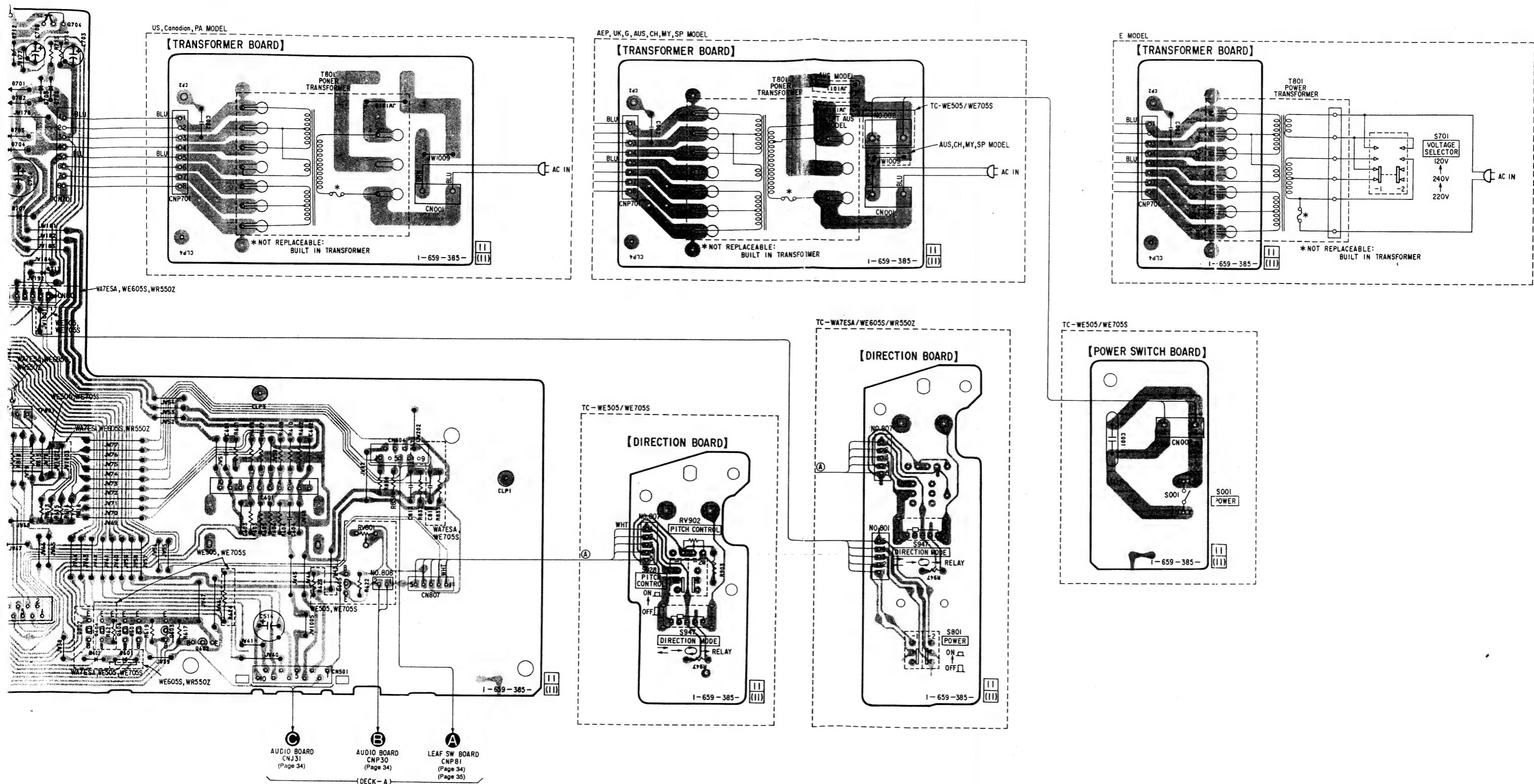
• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	G - 13	IC801	F - 14
D201	G - 13	IC802	G - 13
D521	C - 9	IC804	H - 12
D522	C - 9	IC805	H - 11
D601	H - 17	IC901	H - 2
D602	H - 17		
D701	B - 16	Q101	G - 9
D702	B - 16	Q102	B - 10
D703	C - 16	Q201	E - 9
D704	C - 16	Q202	B - 10
D705	B - 16	Q501	B - 13
D706	B - 16	Q502	G - 9
D707	D - 16	Q503	G - 9
D708	B - 14	Q601	H - 17
D709	B - 14	Q602	H - 18
D710	B - 14	Q603	H - 17
D711	C - 14	Q604	H - 17
D712	B - 16	Q605	G - 19
D713	D - 16	Q606	H - 17
D714	D - 16	Q701	B - 15
D715	D - 15	Q702	D - 14
D716	D - 15	Q703	B - 16
D801	G - 15	Q704	B - 16
D802	G - 15	Q705	B - 14
D803	G - 16	Q706	B - 16
D804	G - 16	Q707	D - 16
D805	E - 15		
D901	D - 5	Q708	D - 15
D902	B - 2	Q709	B - 14
IC501	E - 10	Q801	G - 15
IC502	B - 12	Q802	E - 16
IC503	B - 9	Q803	E - 15
IC601	F - 18		
IC701	G - 14	Q804	E - 12
		Q805	G - 11
		Q806	G - 11
		Q807	H - 17

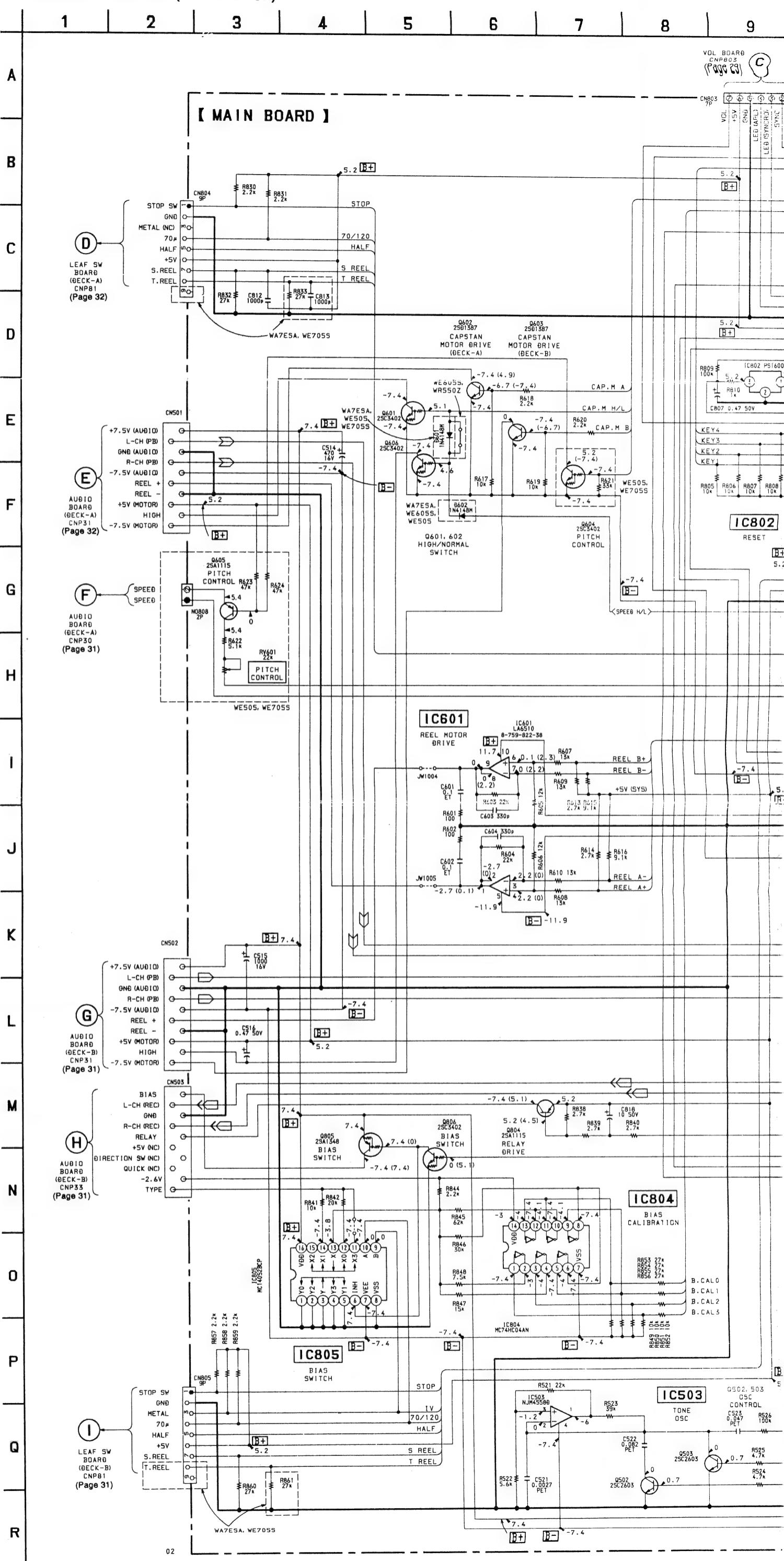
5-2. PRINTED WIRING BOARDS (MAIN SECTION)



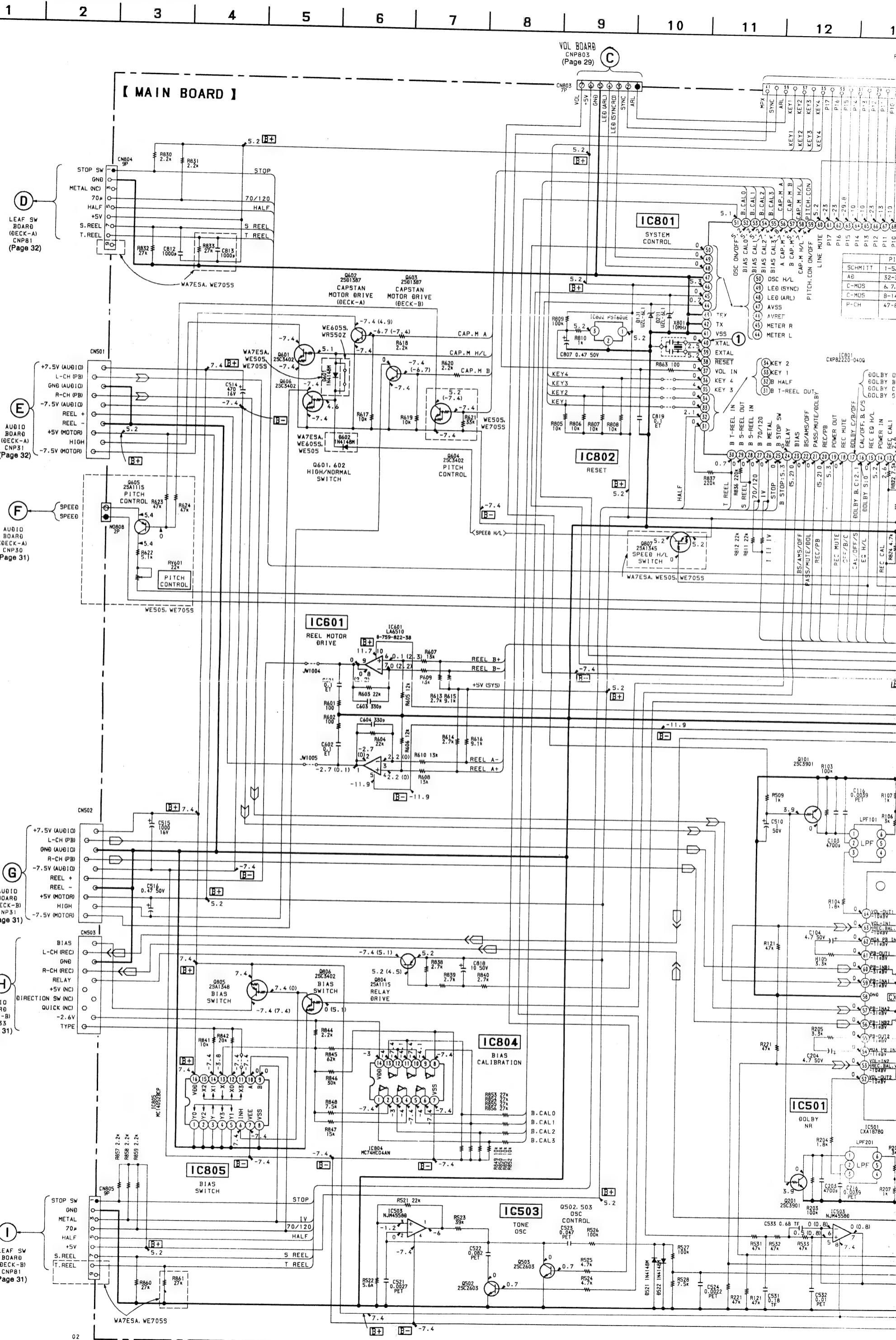


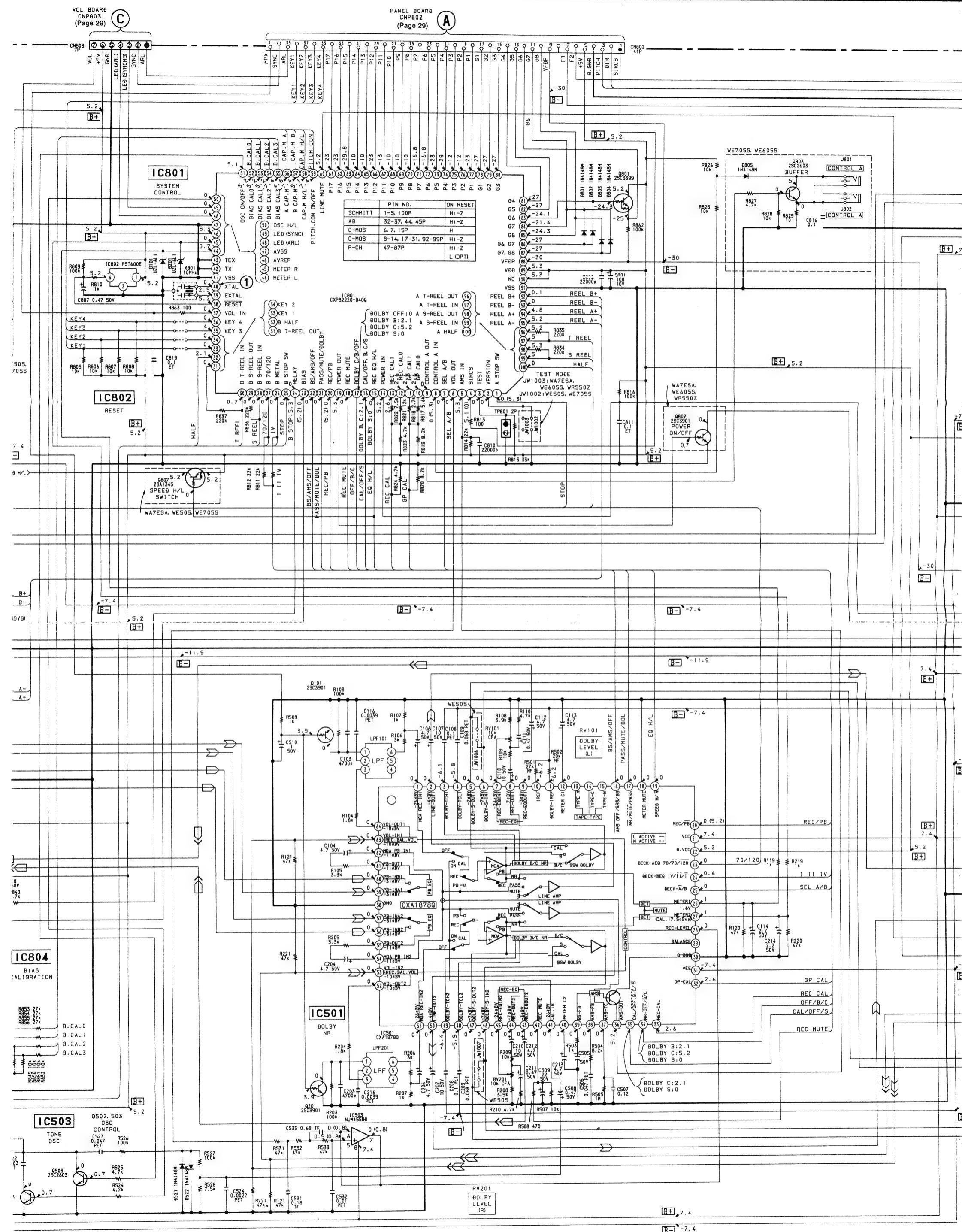


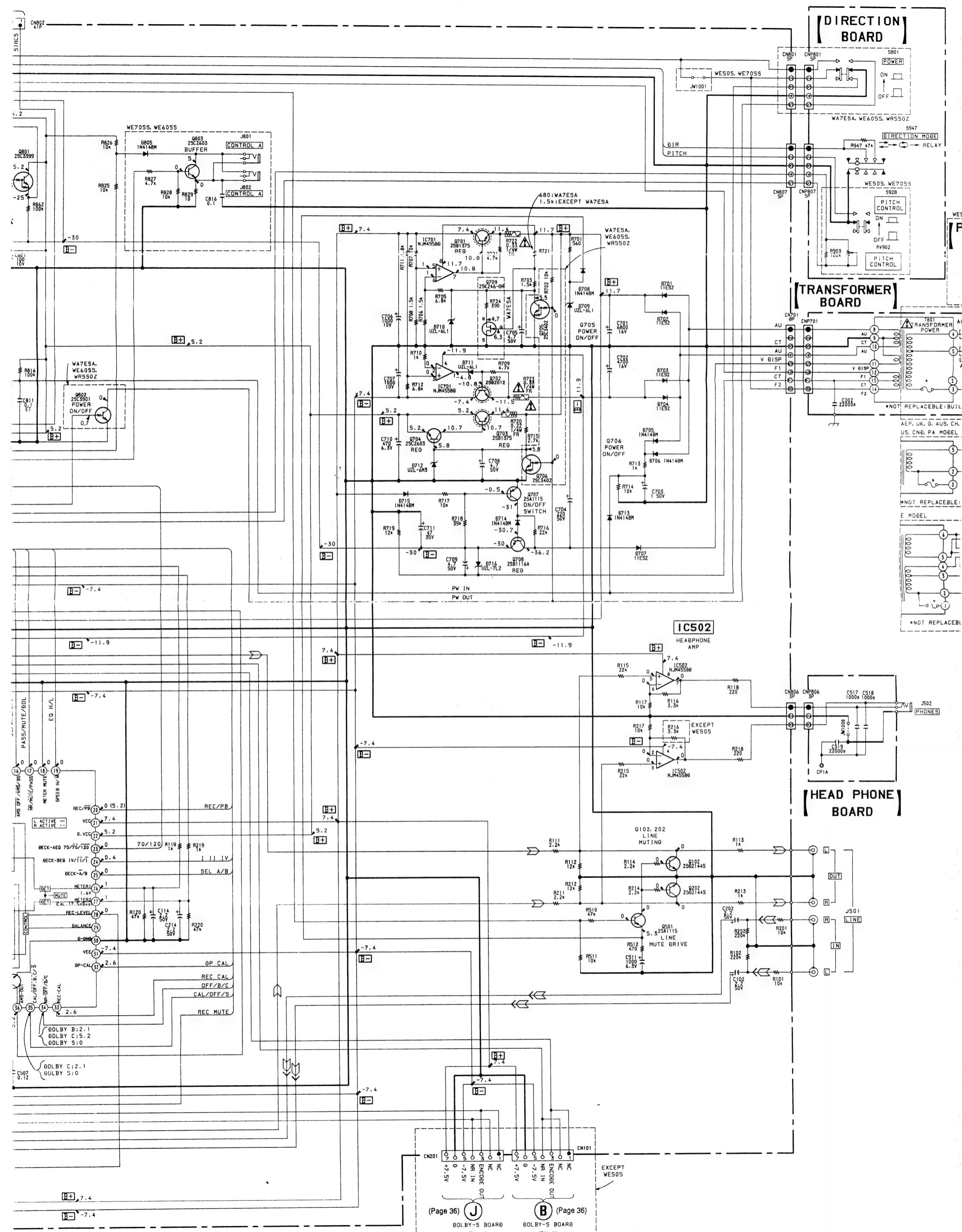
5-3. SCHEMATIC DIAGRAM (MAIN SECTION)



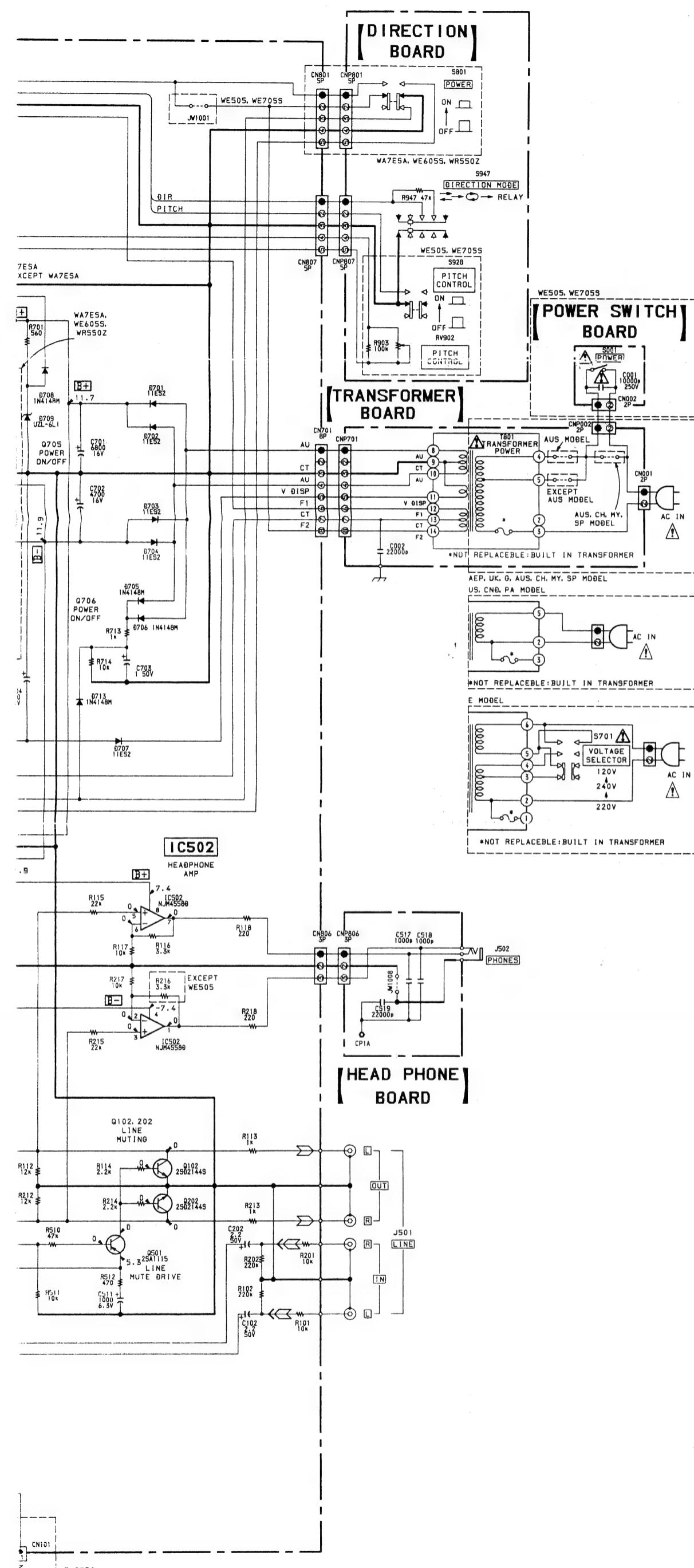
5-3. SCHEMATIC DIAGRAM (MAIN SECTION)



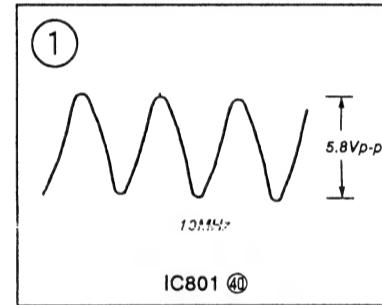




24 25 26 27 28 29 30 31



• WAVEFORM - MAIN SECTION -



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ F 50W or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4$ W or less unless otherwise specified.
- Δ : internal component.
- $\text{W} \sim$: fusible resistor.

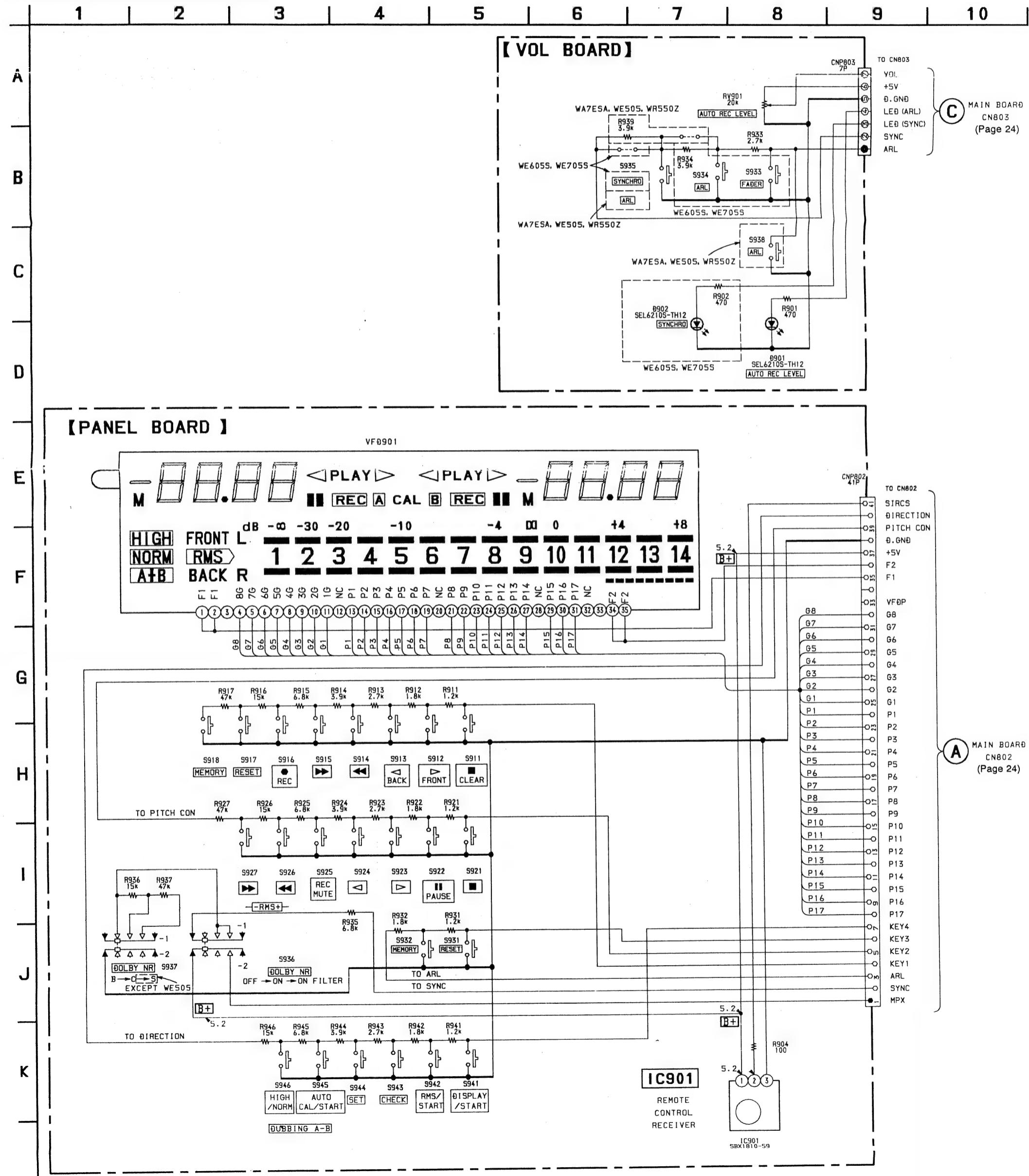
Note :
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

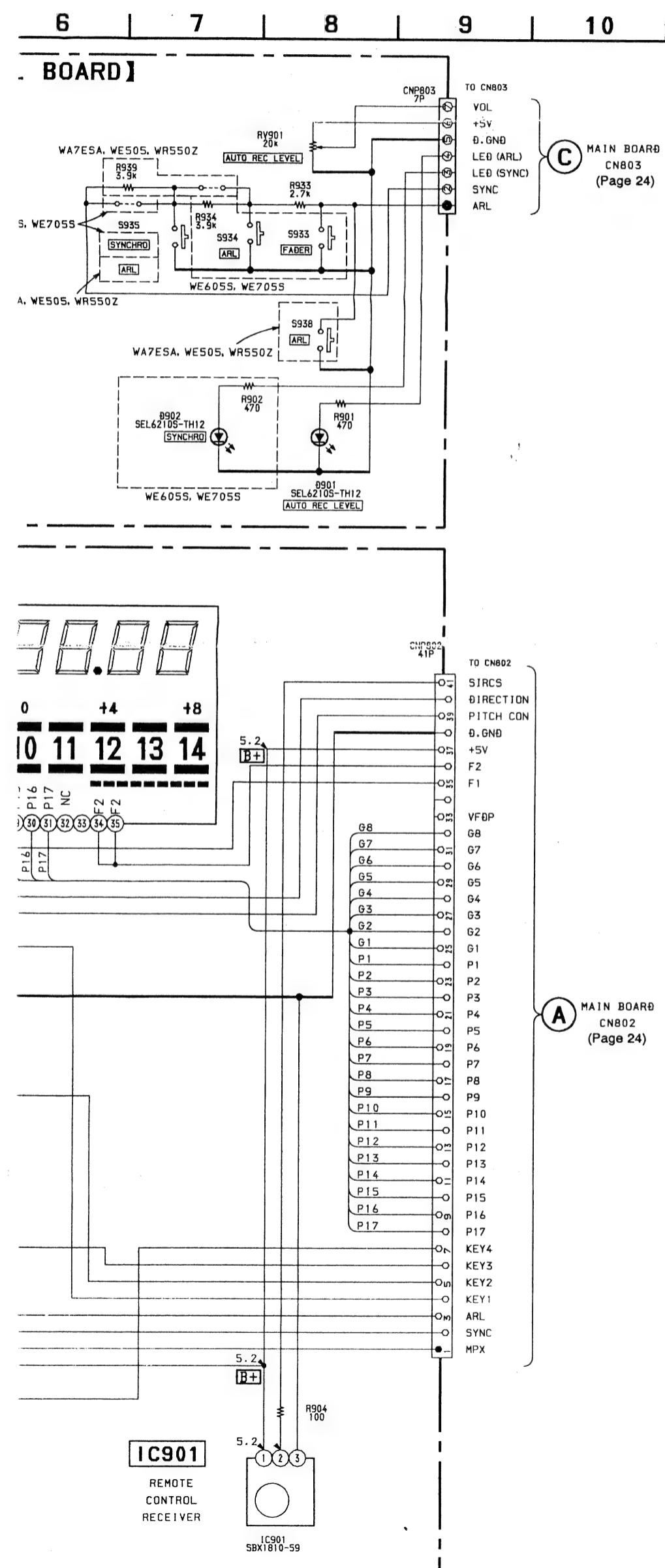
Note :
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- $\text{B}+$: B+ Line
- $\text{B}-$: B- Line
- \square : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : STOP
(\square) : REC
- Voltages are taken with a VOM (Input impedance $10M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- \Rightarrow : PB (DECK A)
 \Rightarrow : PB (DECK B)
 \Rightarrow : REC (DECK B)
- Abbreviation

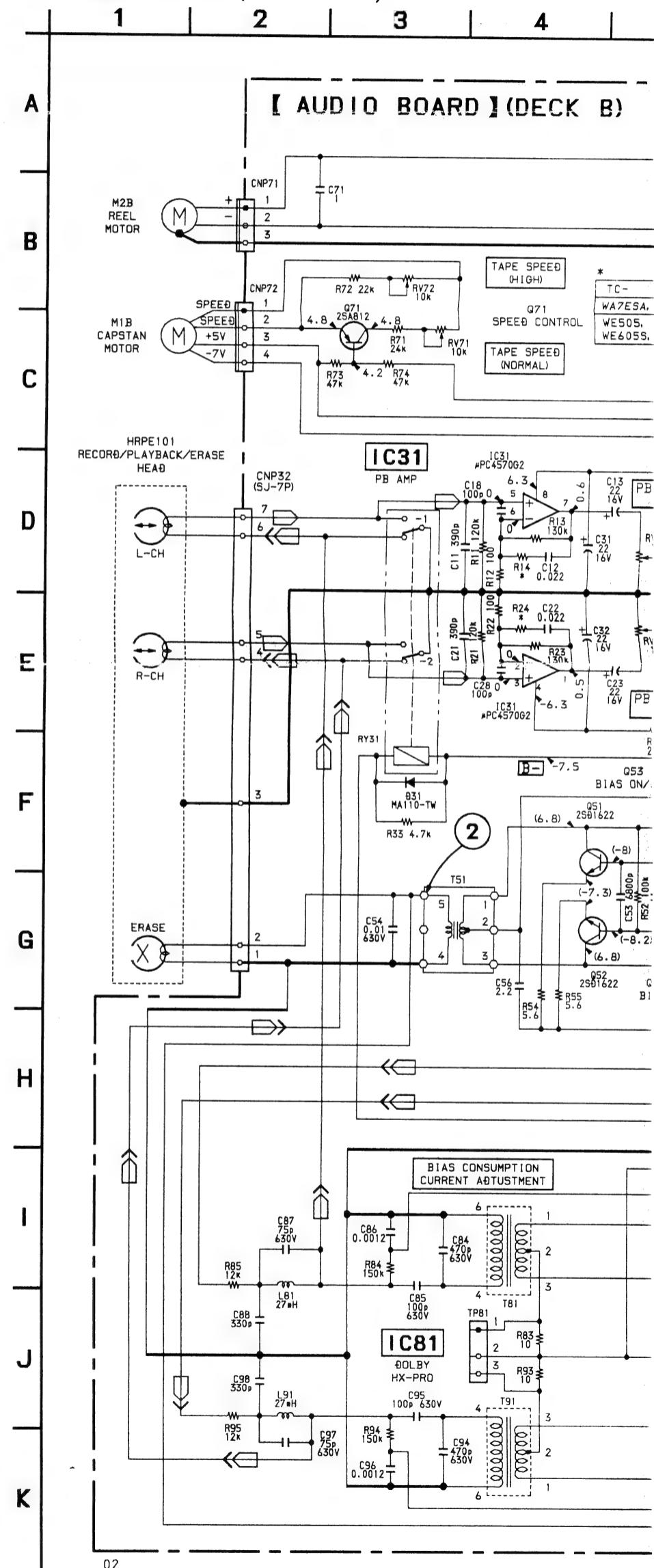
CND : Canadian
G : German
AUS : Australian
CH : Chinese
SP : Singapore
MY : Malaysia
PA : Panama

5-4. SCHEMATIC DIAGRAM (PANEL SECTION)





5-5. SCHEMATIC DIAGRAM (AUDIO SECTION)



Note :

• All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.

• All resistors are in Ω and 1/4W or less unless otherwise specified.

• **B+** : B+ Line

• **B-** : B- Line

• **—** : adjustment for repair.

• Voltage and waveforms are dc with respect to ground under no-signal conditions.

no mark : STOP

() : REC

• Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.

• Waveforms are taken with a oscilloscope.

Voltage variations may be noted due to normal production tolerances.

• Circled numbers refer to waveforms.

• Signal path.

— : PB (DECK A)

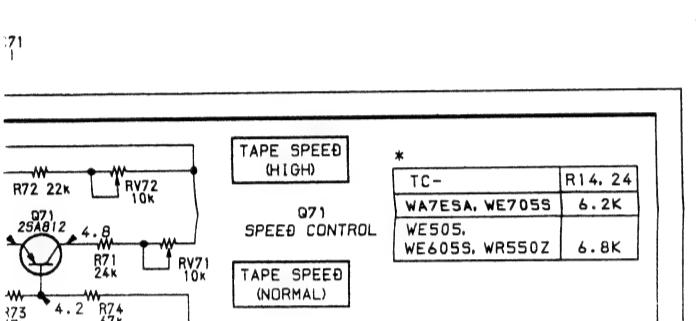
— : PB (DECK B)

— : REC (DECK B)

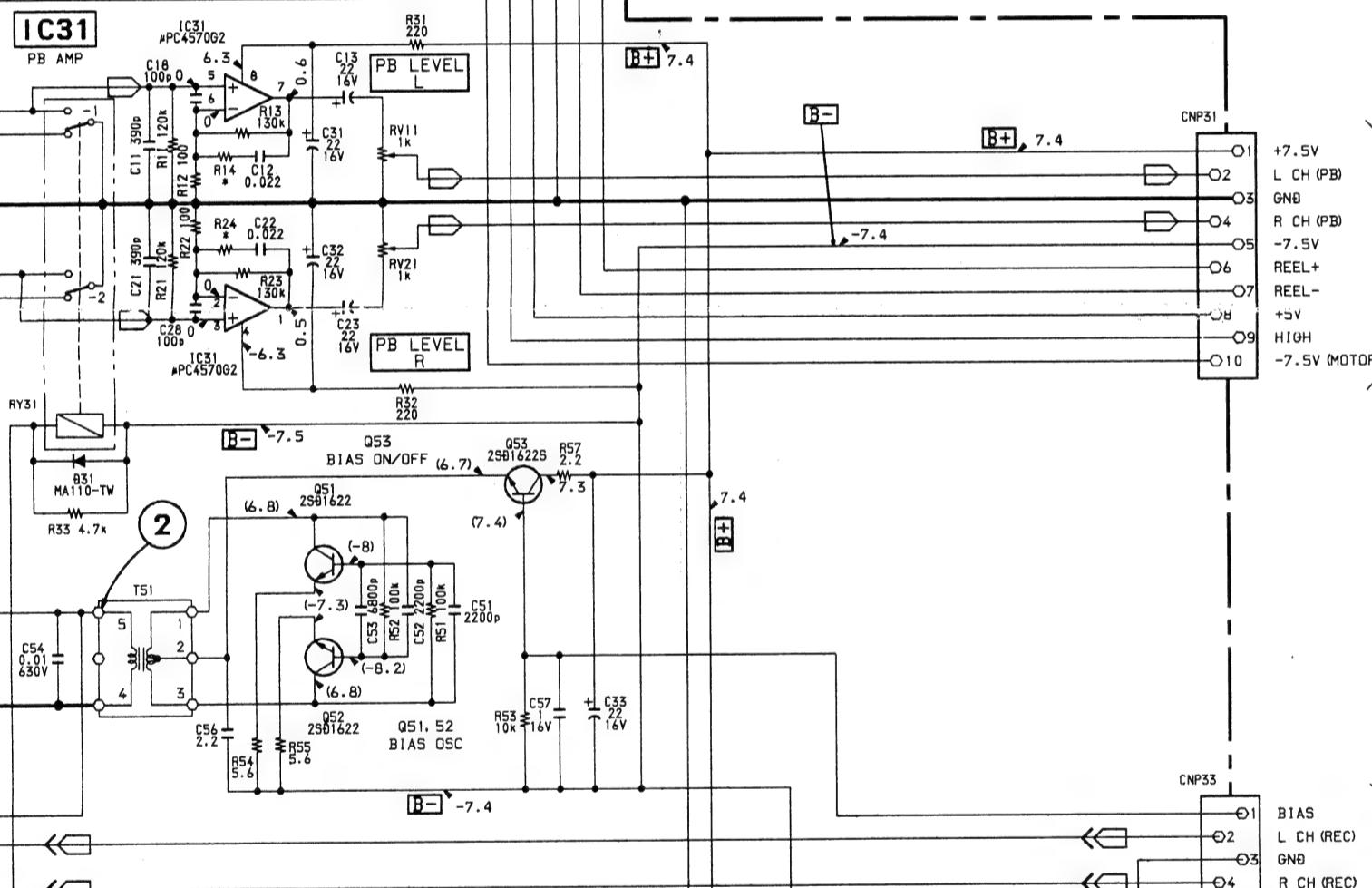
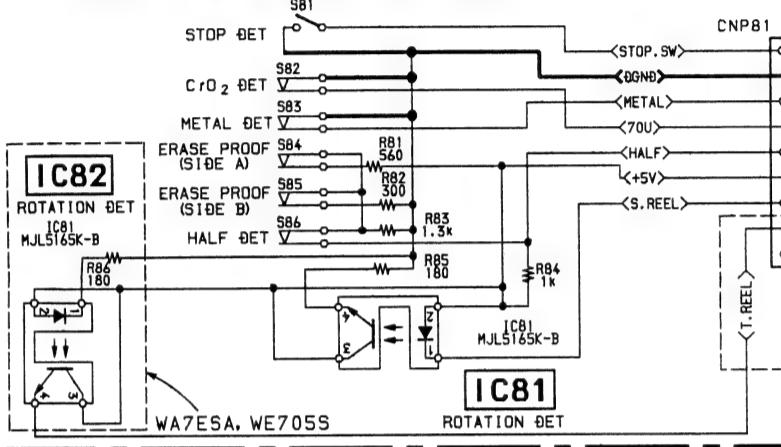
TION)

3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13

DIO BOARD (DECK B)



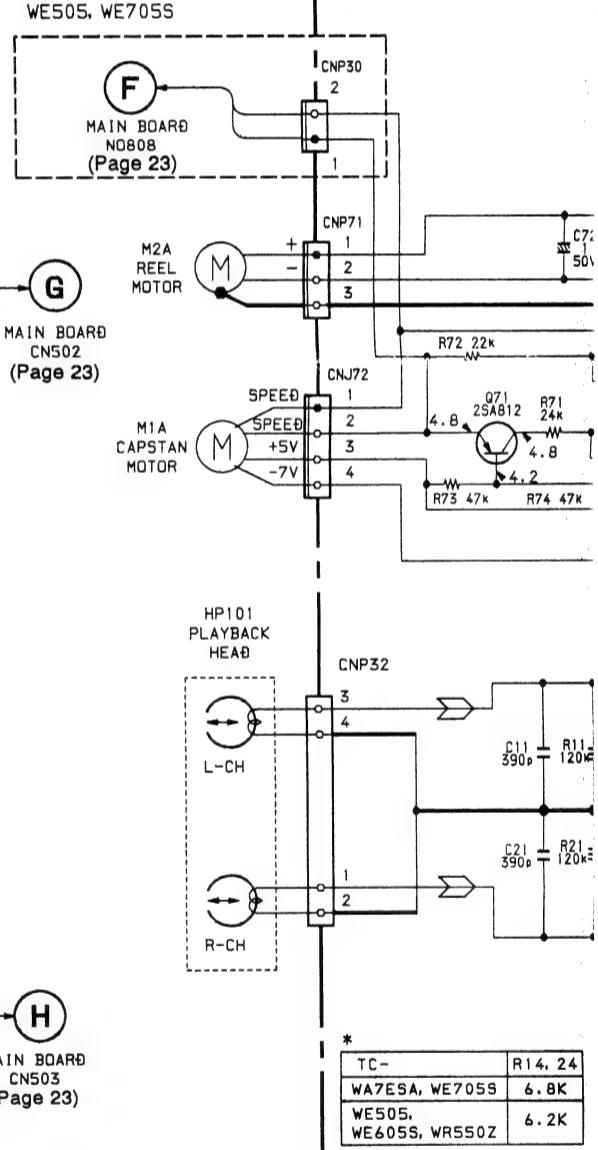
LEAF SW BOARD (DECK B)



MAIN BOARD
CN805
(Page 23)

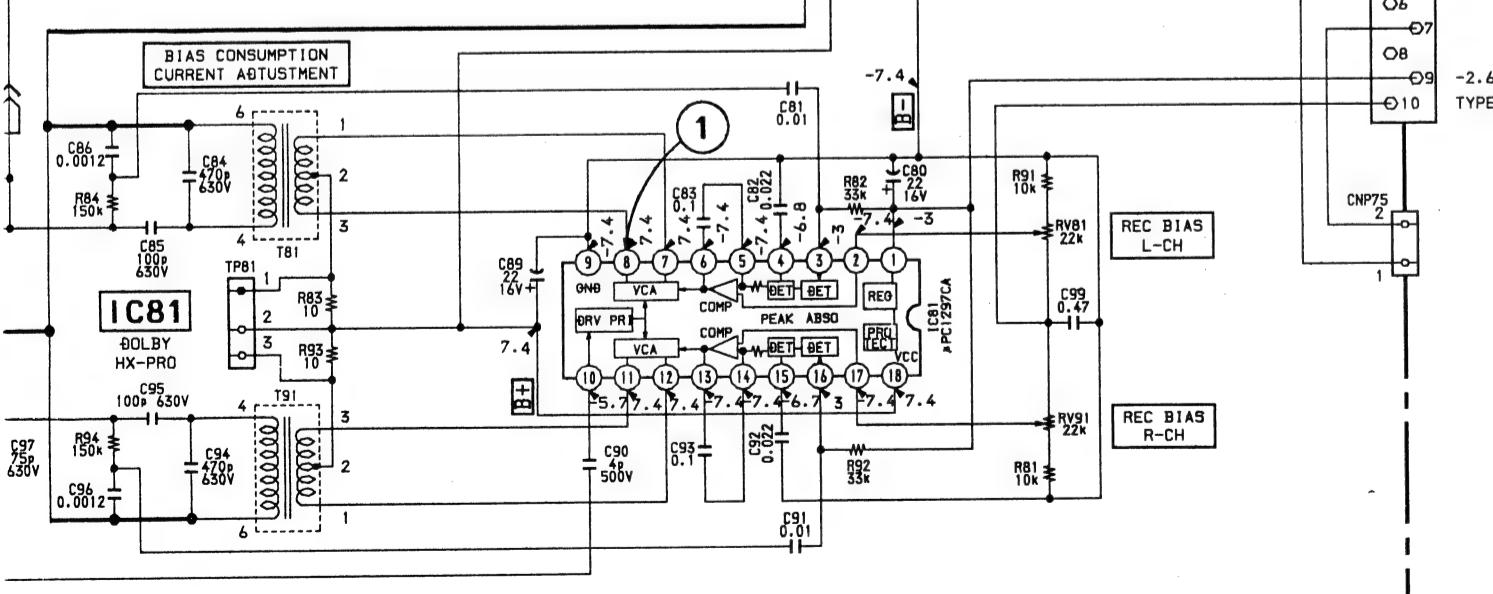
WA7ESA, WE7055

AUDIO BOARD

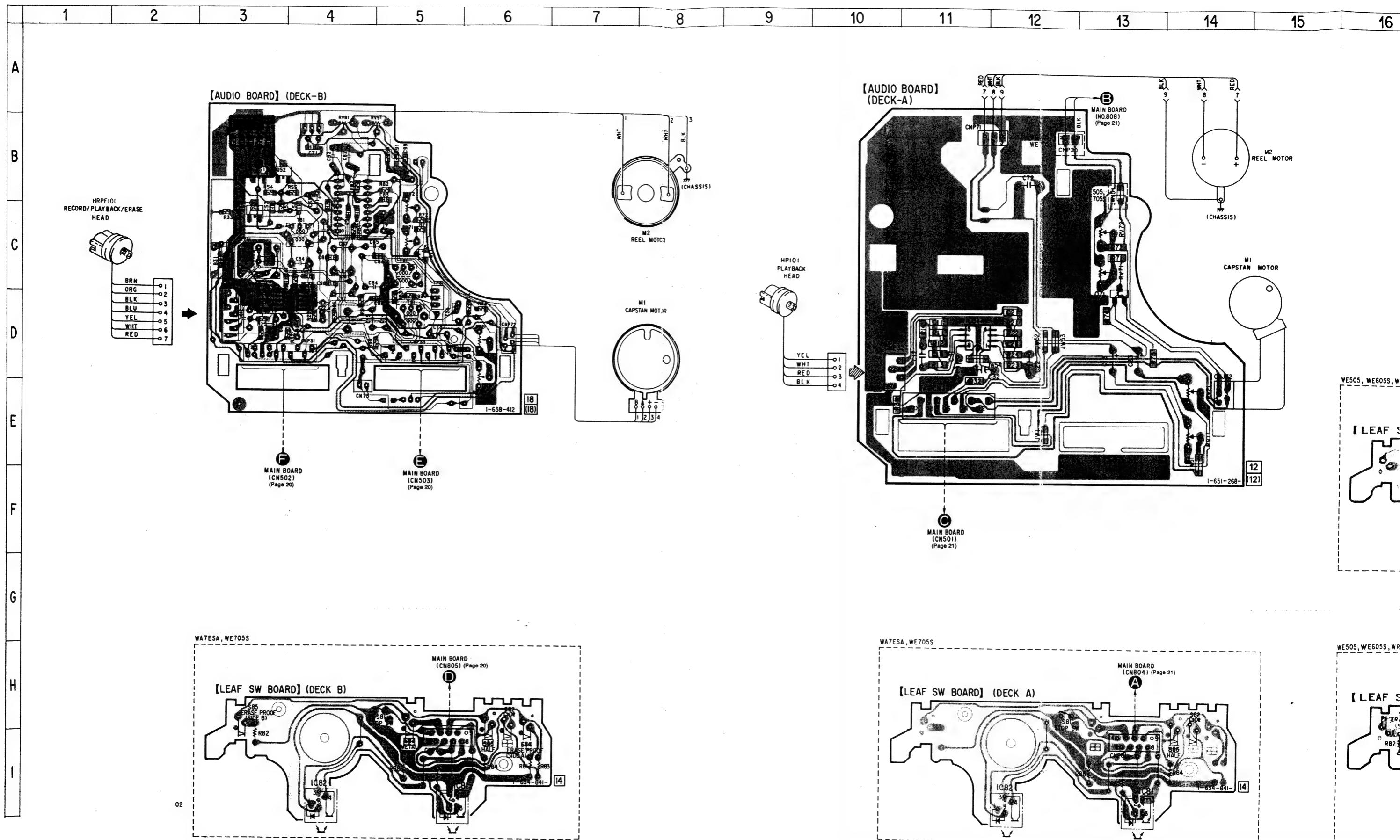


MAIN BOARD
CN503
(Page 23)

WA7ESA, WE7055
WE605, WR550Z

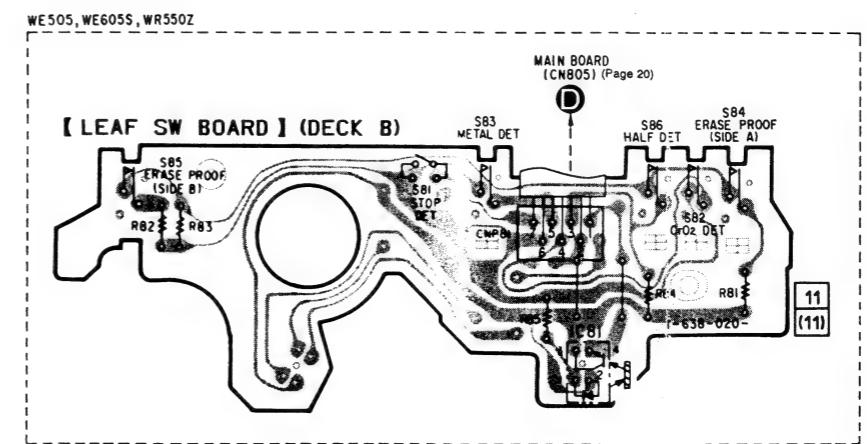
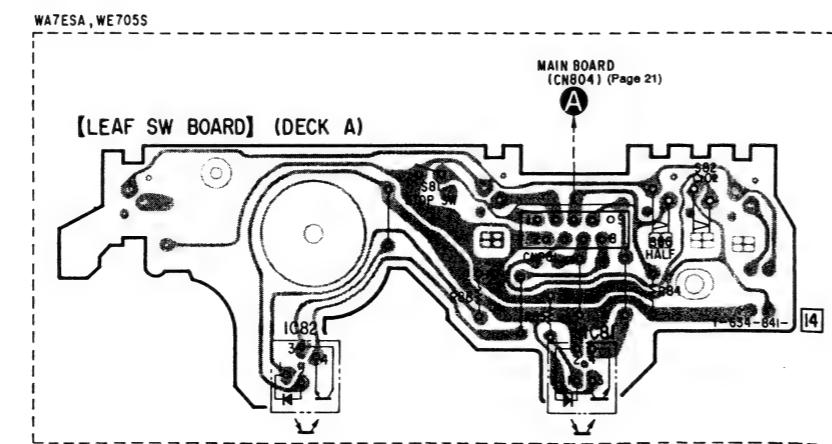
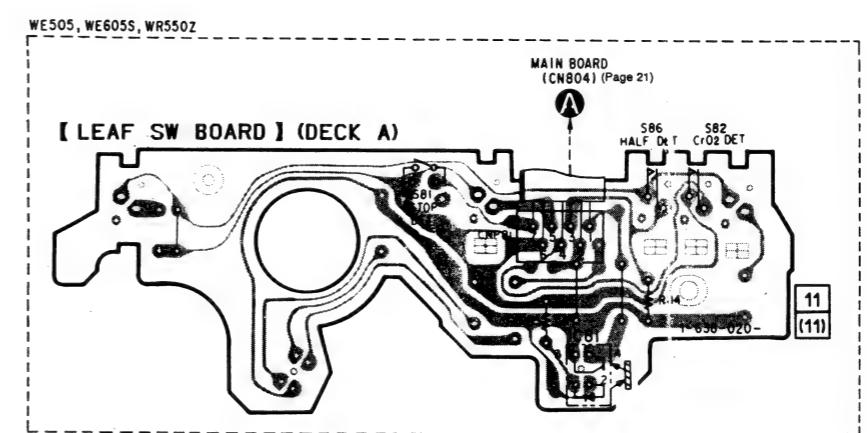
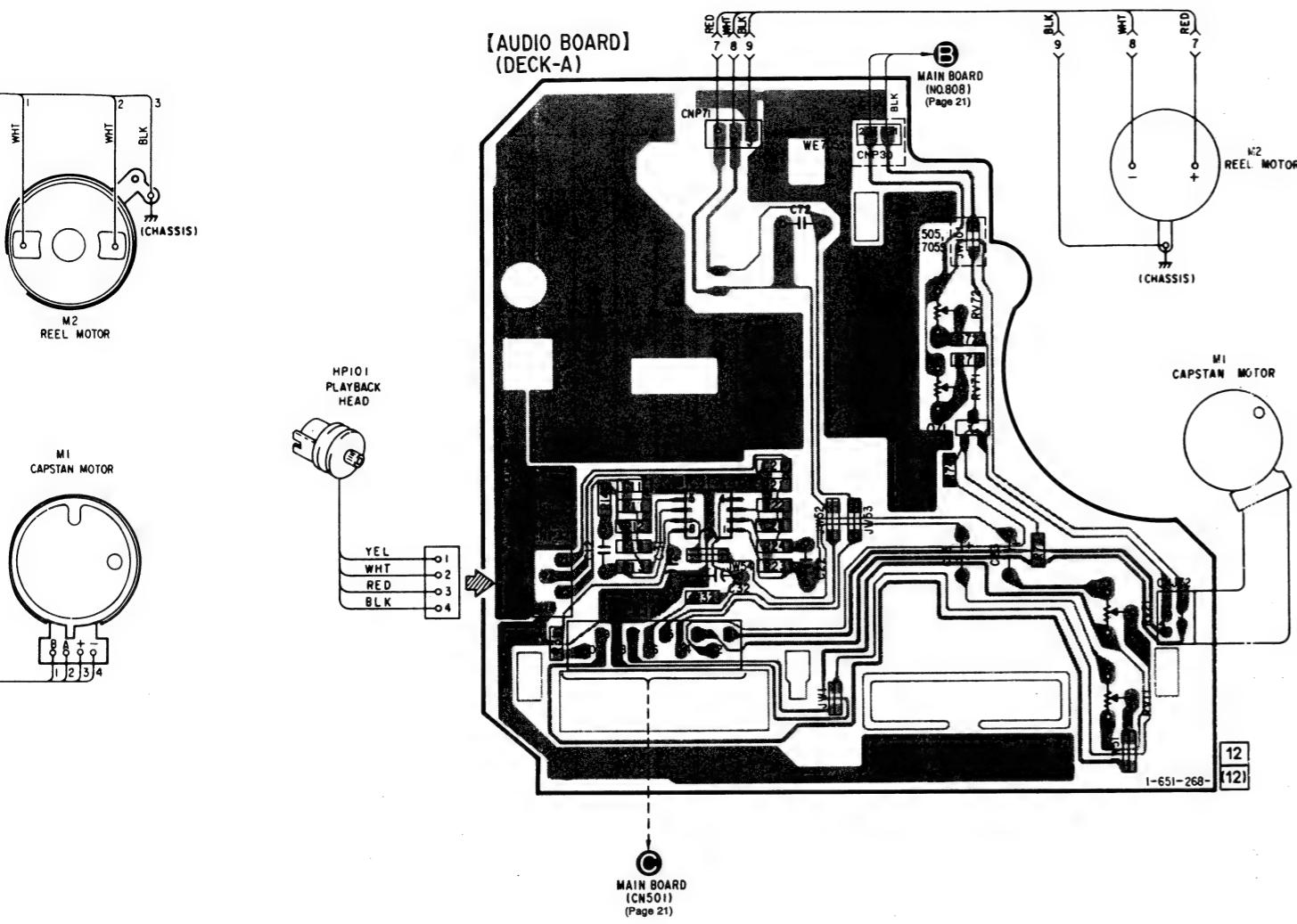


5-6. PRINTED WIRING BOARDS (AUDIO SECTION)



- SEMICONDUCTOR LOCATION (DECK-A)

Ref. No.	Location
IC31	D - 11
IC81 (LEAF SW)	F - 18
IC81 (LEAF SW)	I - 13
IC82 (LEAF SW)	I - 12
Q71	C - 13

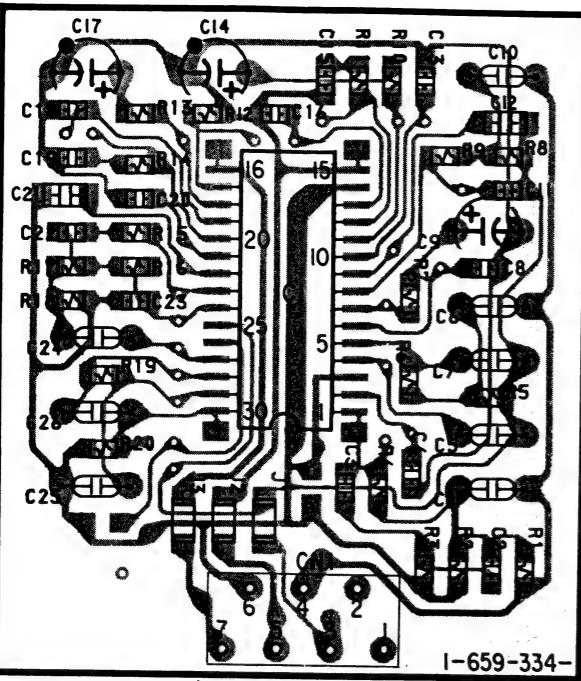


Note:

- : parts extracted from the component side.
- : Through hole.
- ◎ : Pattern on the side which is seen.
- ◎ : Pattern of the rear side.

5-7. PRINTED WIRING BOARDS (DOLBY SECTION)
(EXCEPT WE505)

[DOLBY S BOARD]

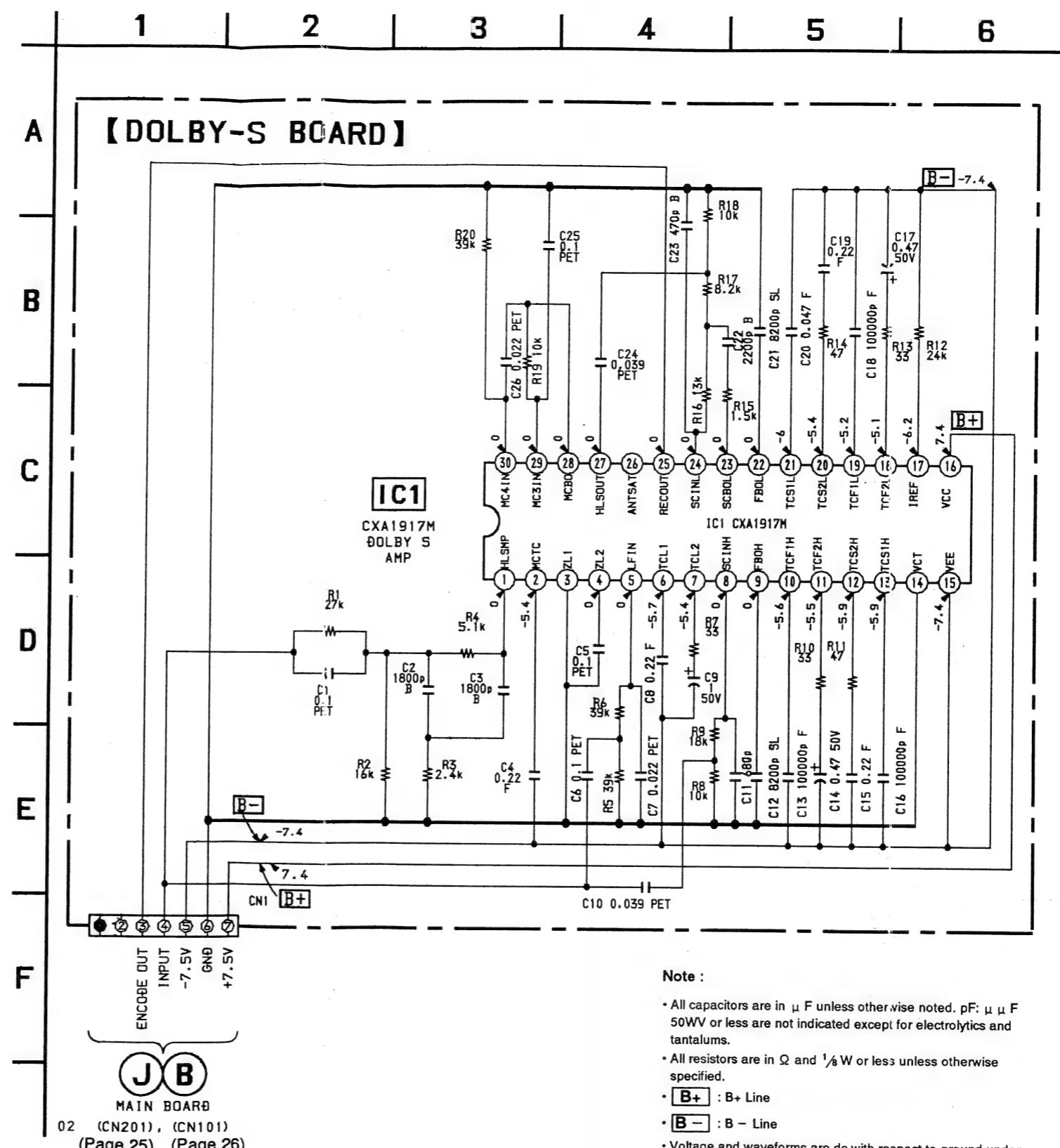


(Page 19) G, H (Page 19)

MAIN BOARD
CN101, 201

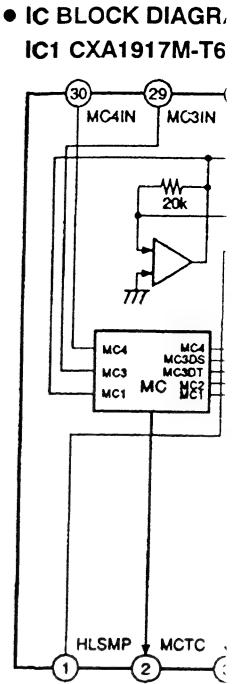
Note:

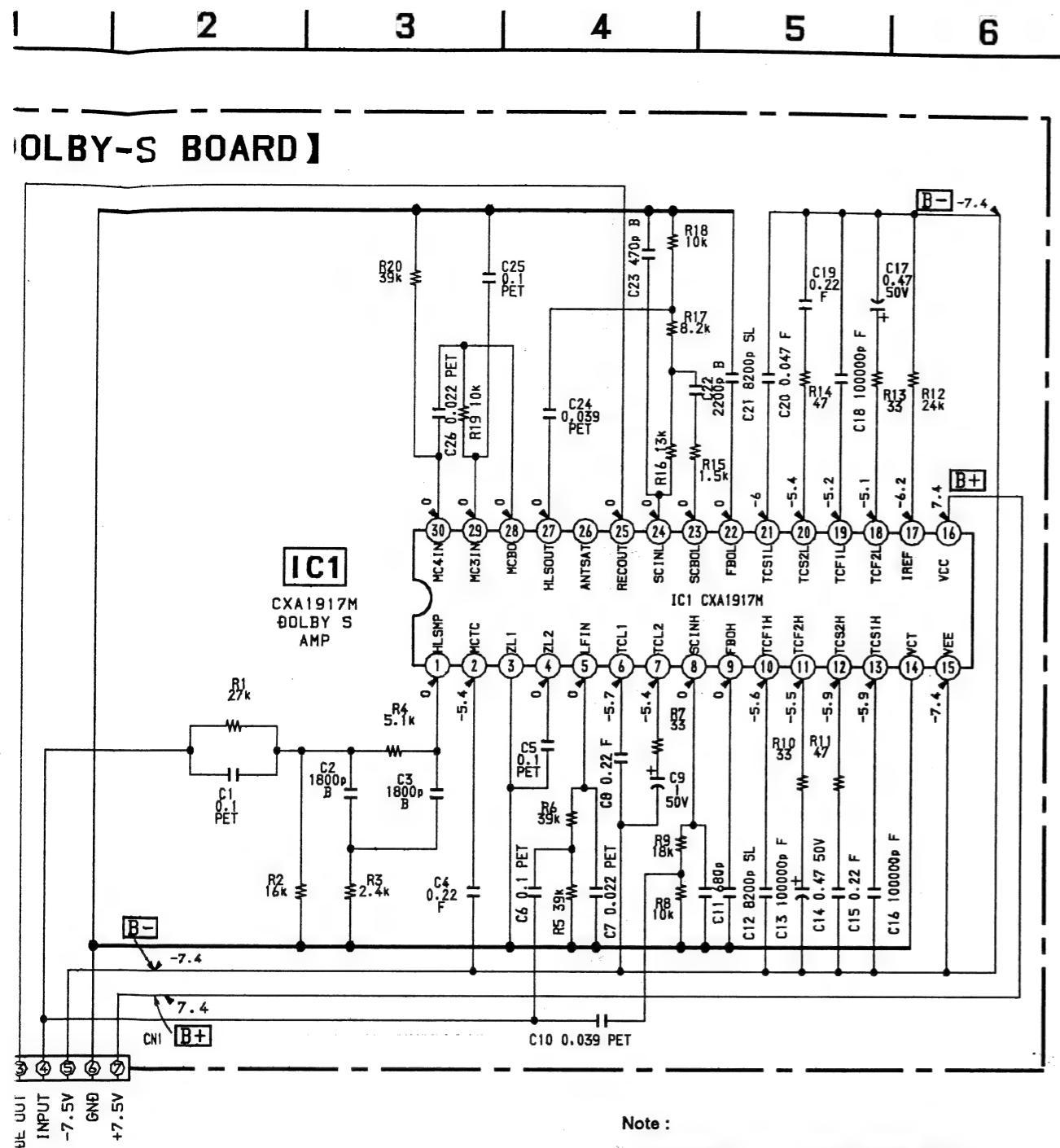
- : parts extracted from the component side.
- : Pattern on the side which is seen.

5-8. SCHEMATIC DIAGRAM (DOLBY SECTION)
(EXCEPT WE505)

Note :

- All capacitors are in μ F unless otherwise noted. PF: $\mu\mu$ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/8$ W or less unless otherwise specified.
- : B+ Line
- : B- Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- No mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.

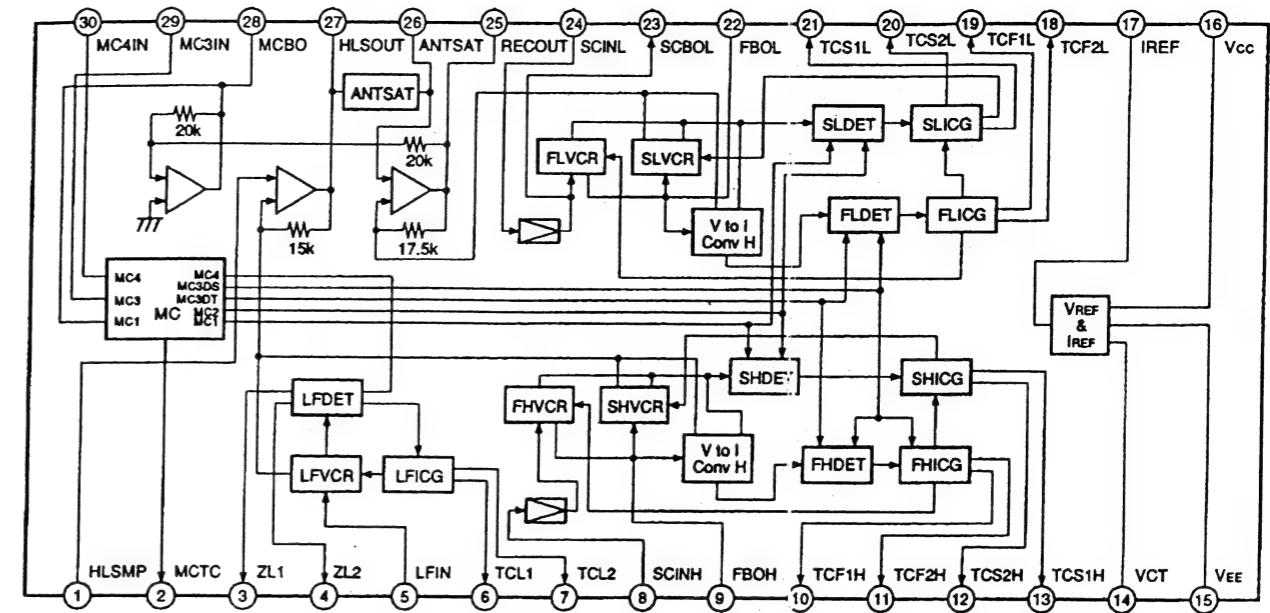




Note :

- All capacitors are in μ F unless otherwise noted. pF: $\mu\mu$ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/8$ W or less unless otherwise specified.
- **[B+]** : B+ Line
- **[B-]** : B- Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark : STOP
- Voltages are taken with a VOM (Input impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.
- Voltage variations may be noted due to normal production tolerances.

- IC BLOCK DIAGRAM
IC1 CXA1917M-T6



SECTION 6 EXPLODED VIEWS

NOTE :
 ● -XX, -X mean standardized parts, so they may have some difference from the original one.
 ● Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

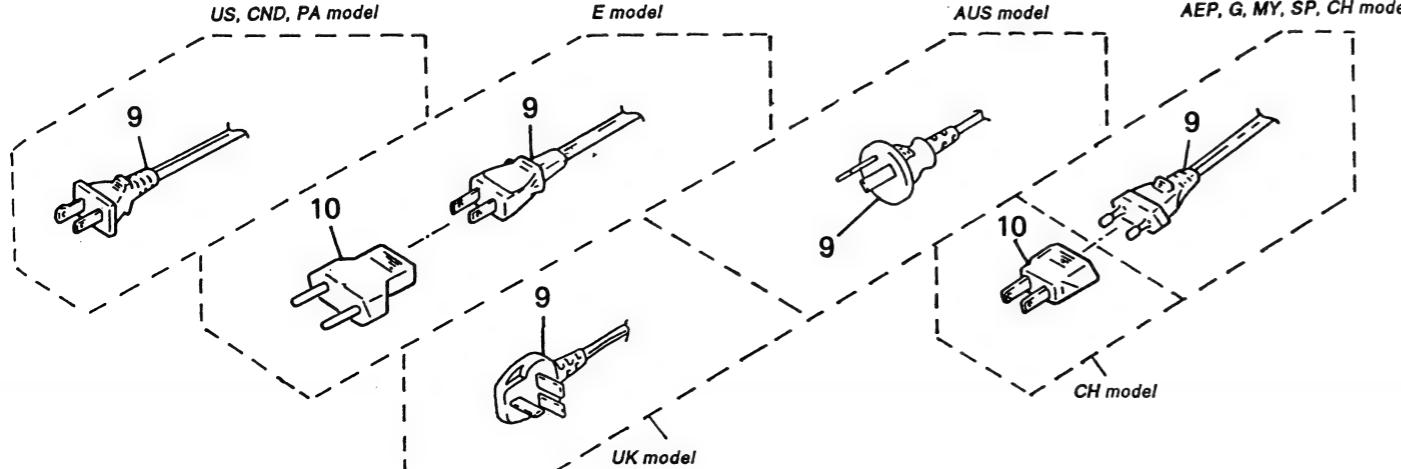
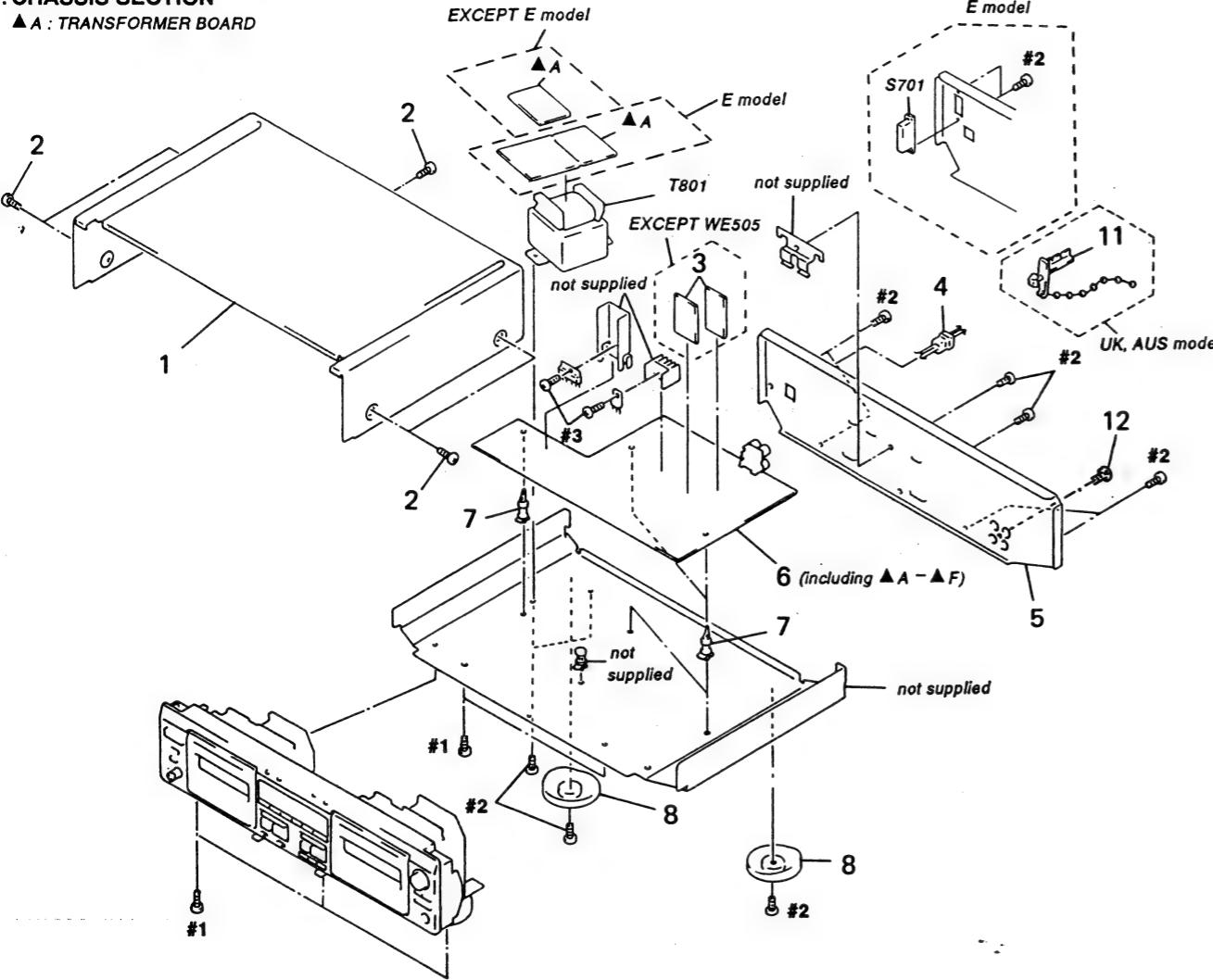
CND : Canadian	G : German
AUS : Australian	MY : Malaysia
SP : Singapore	CH : Chinese
PA : Panama	

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
 Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
 Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS SECTION

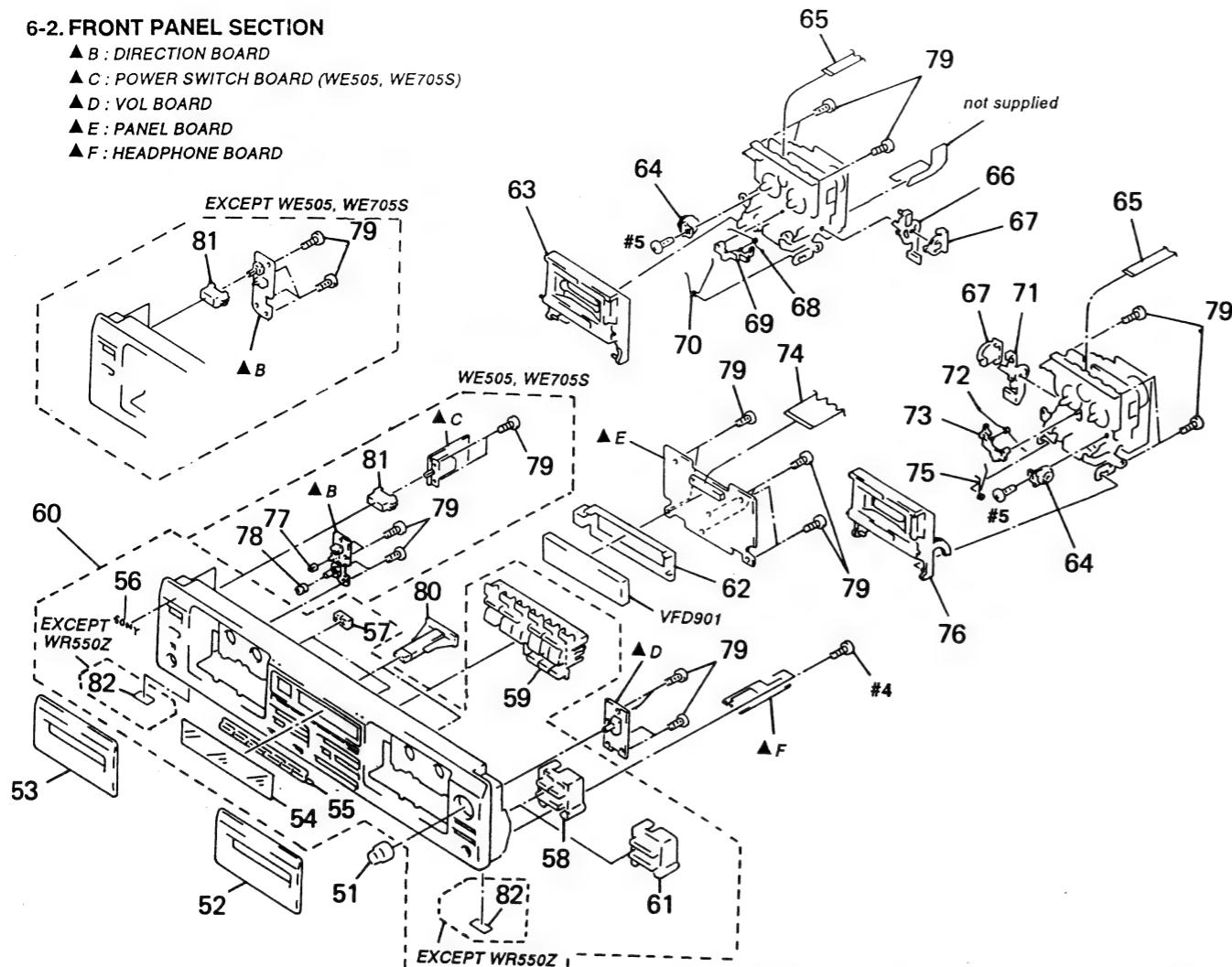
▲ A : TRANSFORMER BOARD



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	3-931-432-01	CASE (410726) (WA7ESA,WE605S,WR550Z)		* 6	A-2007-494-A	MAIN BOARD, COMPLETE (WE505)	
* 1	4-943-088-41	CASE (WE505,WE705S)		* 6	A-2007-495-A	MAIN BOARD, COMPLETE (WE705S)	
2	3-363-099-01	SCREW (CASE 3 TP2)(WE505,WE705S)		* 6	A-2007-513-A	MAIN BOARD, COMPLETE (WA7ESA)	
2	3-704-366-01	SCREW (CASE) (M3X8) (WA7ESA,WE605S,WR550Z)		* 6	A-2007-547-A	MAIN BOARD, COMPLETE (WR550Z)	
* 3	A-2007-481-A	DOLBY-S BOARD, COMPLETE (EXCEPT WE505)		* 6	A-2007-576-A	MAIN BOARD, COMPLETE (WE605S:MY,SP,CH)	
* 4	3-703-244-11	BUSHING (2104), CORD (AEP,UK,G,AUS,MY,SP,CH.)		8	X-3371-435-1	FOOT ASSY (F50150S) (AEP,UK,G,E,AUS,MY,SP,CH)	
4	3-703-571-11	BUSHING (S) (4516), CORD (US,CND,E,PA)		8	X-3371-436-1	FOOT ASSY (F50145S) (US,CND,PA)	
* 5	3-920-372-21	PANEL, BACK (WE505:UK)		△ 9	1-551-188-99	CORD, POWER (E)	
* 5	3-931-244-01	PANEL, BACK (WE605S:US,PA)		△ 9	1-558-945-21	CORD, POWER (POLAR,SPT-1) (US,CND,PA)	
* 5	3-931-244-11	PANEL, BACK (WE605S:CND)		△ 9	1-575-651-21	CORD, POWER (AEP,G,MY,SP,CH)	
* 5	3-931-244-21	PANEL, BACK (WE605S:E)		△ 9	1-696-586-11	CORD, POWER (UK)	
* 5	3-931-244-31	PANEL, BACK (WE605S:AUS)		△ 9	1-696-845-11	CORD, POWER (AUS)	
* 5	3-931-244-41	PANEL, BACK (WE605S:MY,SP,CH)		△ 10	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
* 5	3-931-245-01	PANEL, BACK (WE505:AEP,G)		△ 10	1-569-008-21	ADAPTER, CONVERSION 2P (CH)	
* 5	3-931-245-21	PANEL, BACK (WR550Z)		11	4-956-370-12	BAND, PLUG FIXED (UK,AUS)	
* 5	3-931-246-01	PANEL, BACK (WE705S)		12	3-704-515-01	SCREW (BV,RING) (WE505,WE705S)	
* 5	3-932-543-01	PANEL, BACK (WA7ESA:US)		△ S701	1-692-155-11	SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR) (E)	
* 5	3-932-543-11	PANEL, BACK (WA7ESA:CND)		△ T801	1-427-782-11	TRANSFORMER, POWER (US,CND,PA)	
* 6	A-2007-491-A	MAIN BOARD, COMPLETE (WE605S:US,CND,PA)		△ T801	1-427-783-11	TRANSFORMER, POWER (AEP,UK,G,AUS,MY,SP,CH)	
* 6	A-2007-492-A	MAIN BOARD, COMPLETE (WE605S:E)		△ T801	1-427-784-11	TRANSFORMER, POWER (E)	
* 6	A-2007-493-A	MAIN BOARD, COMPLETE (WE605S:AUS)					

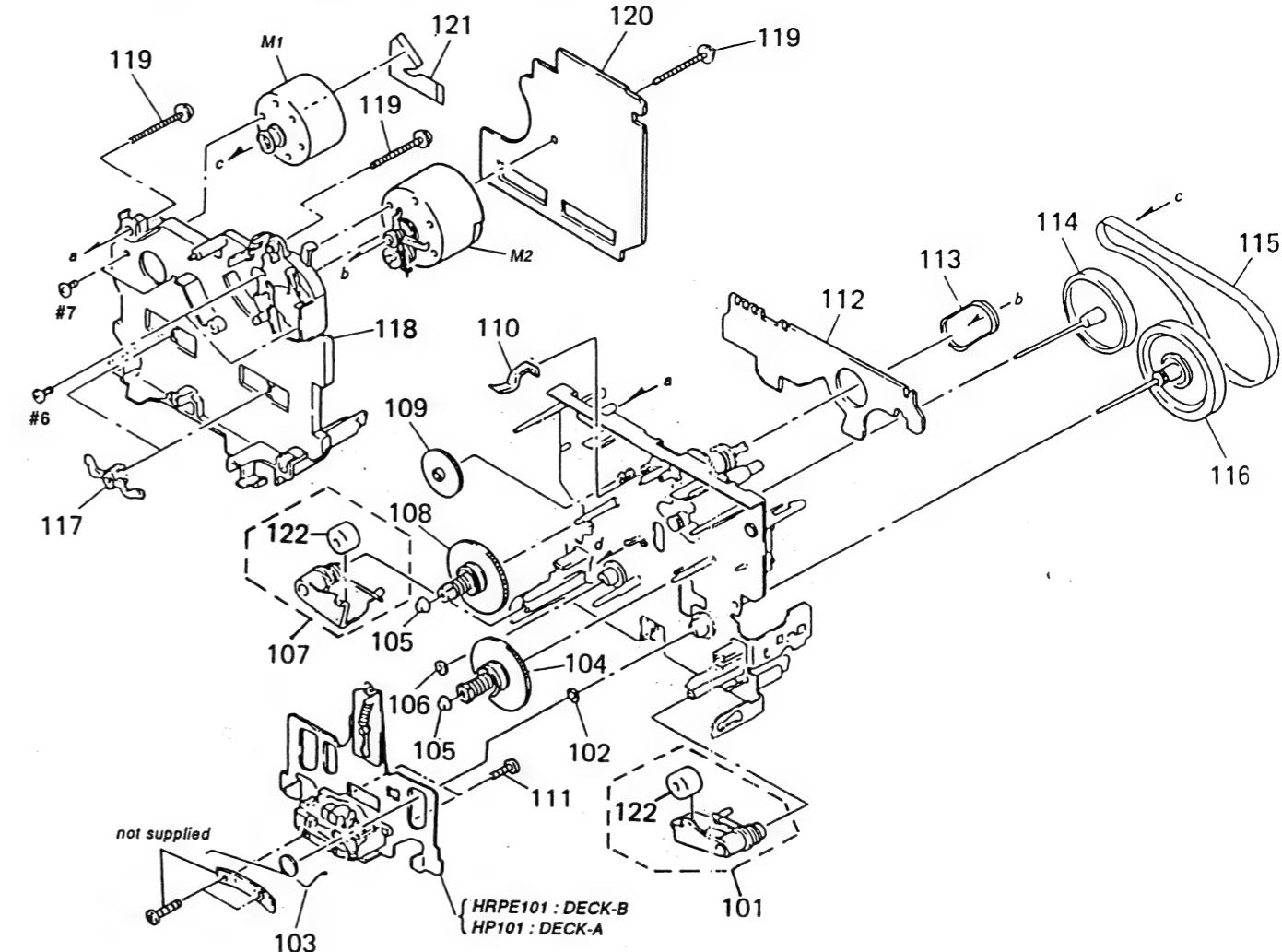
6-2. FRONT PANEL SECTION

- ▲ B : DIRECTION BOARD
- ▲ C : POWER SWITCH BOARD (WE505, WE705S)
- ▲ D : VOL BOARD
- ▲ E : PANEL BOARD
- ▲ F : HEADPHONE BOARD



6-3. MECHANISM SECTION 1

DECK-A (TC-WE605S/WR550Z : TCM-190RA12CL)
 DECK-A (TC-WE505 : TCM-190RA14CL)
 DECK-A (TC-WA7ESA : TCM-190RA17CL)
 DECK-A (TC-WE705S : TCM-190RA18C)
 DECK-B (TC-WA7ESA/WE705S : TCM-190RB11C)
 DECK-B (TC-WE505/WE605S/WR550Z : TCM-190RB12CL)



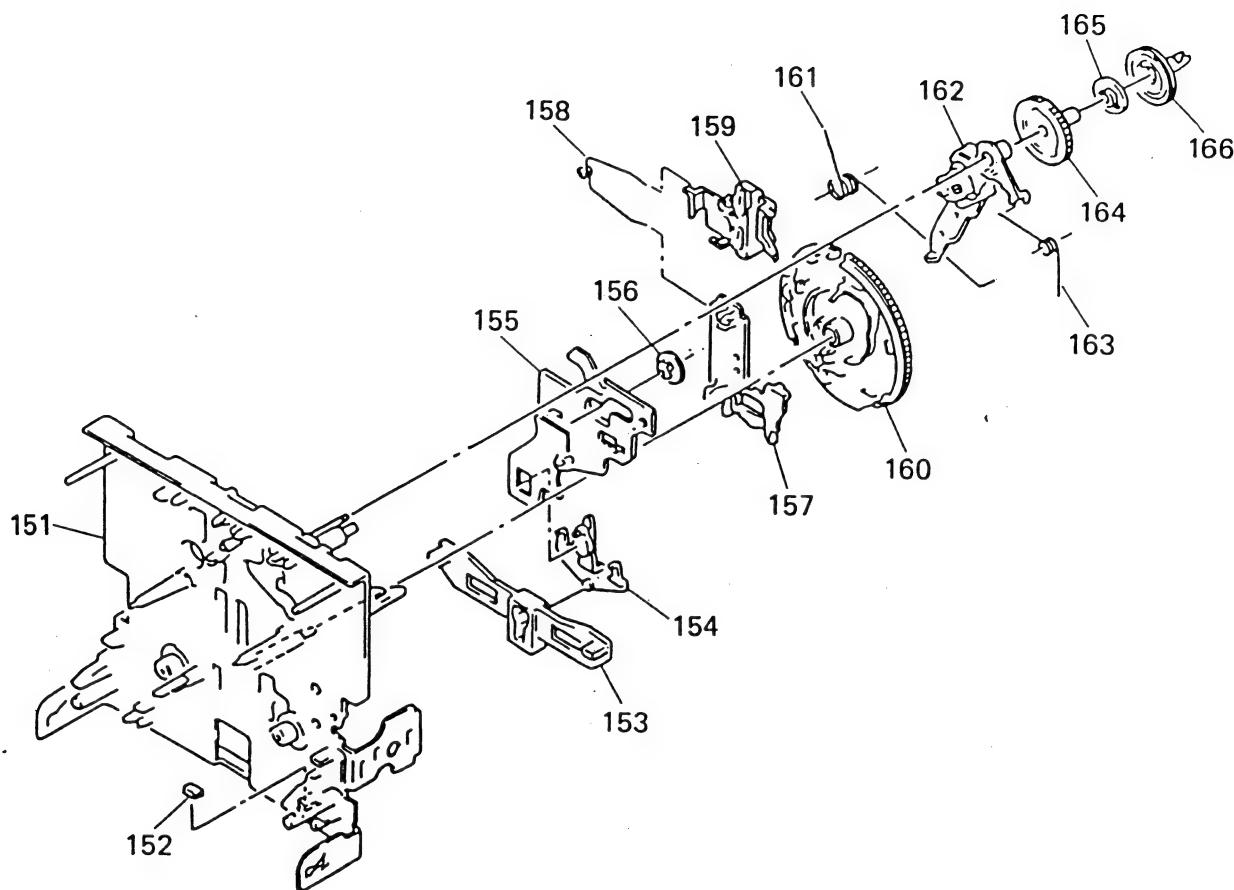
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-909-661-21	KNOB (REC) (WE505,WE705S)		64	3-354-963-01	DAMPER	
51	3-931-430-11	KNOB (REC) (WA7ESA,WE605S,WR550Z)		65	1-769-882-11	WIRE (FLAT TYPE) (7 CORE) (WE505,WE605S,WR550Z)	
52	X-3371-367-1	LID (HF) ASSY (B), CASSETTE (EXCEPT WA7ESA)		65	1-769-912-11	WIRE (FLAT TYPE) (9 CORE) (WA7ESA,WE705S)	
52	X-3371-572-1	LID (ES) ASSY (B), CASSETTE (WA7ESA)		* 66	3-354-953-01	LEVER (LOCK LEVER L)	
53	X-3371-366-1	LID (HF) ASSY (A), CASSETTE (EXCEPT WA7ESA)		67	3-354-957-01	JOINT (LOCK LEVER)	
53	X-3371-571-1	LID (ES) ASSY (A), CASSETTE (WA7ESA)		68	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
54	3-931-248-01	WINDOW (M) (EXCEPT WA7ESA:CND)		69	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
54	3-931-248-31	WINDOW (M) (WA7ESA:CND)		70	4-959-231-11	SPRING (L), TORSION	
55	3-931-237-01	BUTTON (RMS-6)		* 71	3-354-954-01	LEVER (LOCK LEVER R)	
56	4-963-404-21	EMBLEM (5-A), SONY		72	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
57	3-931-243-01	BUTTON (COUNTER)		73	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
58	X-3371-370-1	BUTTON (SYNCHRO) ASSY (WE705S,WE605S)		74	1-769-598-11	WIRE (FLAT TYPE) (41 CORE)	
59	3-931-239-01	BUTTON (SR)		75	4-959-232-11	SPRING (R), TORSION	
60	X-3371-355-1	PANEL (HF) ASSY, FRONT (WE605S:US,CND,PA)		76	X-4945-946-1	HOLDER (R) ASSY, CASSETTE	
60	X-3371-356-1	PANEL (HF) ASSY, FRONT (WE605S:E,AUS,MY,SP,CH)		77	3-380-952-21	BUTTON (5X5)	
60	X-3371-357-1	PANEL ASSY, FRONT (WR550Z)		78	3-931-378-01	KNOB (F10) (WE505,WE705S)	
60	X-3371-358-1	PANEL ASSY, FRONT (WE505)		79	4-951-620-01	SCREW (2.6X8), +BVTP	
60	X-3371-361-1	PANEL ASSY, FRONT (WE705S)		80	3-377-328-11	BUTTON (EJECT) (WE505,WE705S)	
60	X-3371-567-1	PANEL (ES) ASSY, FRONT (WA7ESA:US)		80	3-931-427-11	BUTTON (EJ) (WA7ESA,WE605S,WR550Z)	
60	X-3371-568-1	PANEL (ES) ASSY, FRONT (WA7ESA:CND)		81	3-354-932-01	BUTTON (POWER) (WE505,WE705S)	
61	3-931-242-01	BUTTON (ARL) (WA7ESA,WE505,WR550Z)		81	3-931-429-01	BUTTON (POWER) (WE605S,WR550Z)	
* 62	3-377-337-11	HOLDER (FL)		81	4-922-921-31	BUTTON (POWER) (WA7ESA)	
63	X-4945-947-1	HOLDER (FL) ASSY, CASSETTE		82	4-977-358-01	CUSHION (8X12.5) (EXCEPT WR550Z)	
				VFD901	1-517-263-11	INDICATOR TUBE, FLUORESCENT	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-3366-047-1	LEVER (PINCH F) ASSY		116	X-3367-629-1	FLYWHEEL (FWD) ASSY	
102	3-356-713-01	WASHER		117	3-575-321-00	RETAINER, THRUST, CAPSTAN	
103	3-907-362-01	SPRING, TORSION		118	3-359-436-11	BASE (THRUST RETAINER), FITTING	
104	X-3366-970-1	TABLE ASSY, REEL (WE505,WE605S,WR550Z)		119	3-359-414-01	SCREW (+PTPWH 2X23)	
104	X-3366-971-1	TABLE ASSY, REEL (WA7ESA,WE705S)		*	120	A-2007-040-A	AUDIO BOARD, COMPLETE (DECK B)
105	3-362-308-01	CAP (REEL)		*	120	A-2007-266-A	AUDIO BOARD, COMPLETE (DECK A) (WE605S, WR550Z)
106	3-356-714-01	WASHER		*	120	A-2007-339-A	AUDIO BOARD, COMPLETE (DECK A) (WE505)
107	X-3366-048-1	LEVER (PINCH R) ASSY		*	120	A-2007-479-A	AUDIO BOARD, COMPLETE (DECK A) (WA7ESA)
108	X-3366-971-1	TABLE ASSY (B), REEL		*	120	A-2007-480-A	AUDIO BOARD, COMPLETE (DECK A) (WE705S)
109	3-359-424-01	GEAR (REV GEAR)		121	1-638-983-11	MOTOR FLEXIBLE BOARD	
110	3-359-430-01	SPRING (CASSETTE RETAINER), LEAF		122	3-355-808-02	PINCH ROLLER	
111	3-388-848-01	SCREW (P2X6) (B TIGHT)		HP101	A-2004-526-A	DECK ASSY, HEAD (PLAYBACK) (WE505, WE605S,WR550Z)	
*	1-634-841-14	LEAF SW BOARD (DECK A) (WA7ESA,WE705S)		HP101	A-2004-548-A	DECK ASSY, HEAD (PLAYBACK) (WA7ESA, WE705S)	
*	1-638-020-11	LEAF SW BOARD (DECK A) (WE505,WE605S, WR550Z)		HRPE101A-2004-527-A	DECK ASSY, HEAD (RECORD / PLAYBACK / ERASE)		
*	1-634-841-14	LEAF SW BOARD (DECK B) (WA7ESA,WE705S)		M1	X-3365-377-2	MOTOR ASSY (CAPSTAN)	
*	1-638-020-11	LEAF SW BOARD (DECK B) (WE505,WE605S, WR550Z)		M2	X-3365-501-2	MOTOR ASSY (REEL)	
113	3-359-466-01	BELT (FR), SQUARE					
114	X-3367-630-1	FLYWHEEL (REV) ASSY					
115	3-359-417-01	BELT (FLAT), CAPSTAN					

6-4. MECHANISM SECTION 2

DECK-A (TC-WE605S/WR550Z : TCM-190RA12CL)
 TC-WE505 : TCM-190RA14CL
 TC-WA7ESA : TCM-190RA17CL
 TC-WE705S : TCM-190RA18C

DECK-B (TC-WA7ESA/WE705S : TCM-190RB11C)
 TC-WE505/WE605S/WR550Z : TCM-190RB12CL)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-359-415-1	CHASSIS ASSY MECHANICAL		159	3-359-429-01	SLIDER (BRAKE PLATE)	
152	3-359-469-01	SPACER		* 160	3-936-483-01	GEAR (CAM GEAR)	
153	3-359-425-01	SLIDER (REVERSE SLIDER)		161	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	
154	3-359-426-01	LEVER (REVERSE LEVER)		162	X-3366-569-1	ARM ASSY, FR	
* 155	3-359-415-01	SLIDER (TRIGGER SLIDER)		163	3-924-185-11	SPRING (FR ARM), TORSION	
156	3-359-448-01	GEAR (TRIGGER)		164	3-359-419-11	GEAR (FR GEAR)	
157	3-359-427-01	SLIDER (LEVERSE SLIDER)		165	3-359-421-01	CLUTCH (REEL DISK)	
158	3-359-454-01	SPRING, TORSION		166	3-359-418-01	PULLEY (FR PULLEY)	

SECTION 7
ELECTRICAL PARTS LIST

AUDIO (DECK A)

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal oxide-film resistor
F : nonflammable
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref. No.	Part No.	Description	Remark
*	A-2007-266-A	AUDIO BOARD, COMPLETE (DECK A) (WE605S, WR550Z)	
*	A-2007-339-A	AUDIO BOARD, COMPLETE (DECK A) (WE505)	
*	A-2007-479-A	AUDIO BOARD, COMPLETE (DECK A) (WA7ESA)	
*	A-2007-480-A	AUDIO BOARD, COMPLETE (DECK A) (WE705S)	
		*****	*****

- SEMICONDUCTORS
In each case, u : μ , for example :
uA... : μ A..., uPA... : μ PA...
uPB... : μ PB..., uPC... : μ PC...
uPD... : μ PD...

- CAPACITORS
uF : μ F

- COILS
uH : μ H

- Abbreviation

CND : Canadian
AUS : Australian
SP : Singapore
PA : Panama

G : German
MY : Malaysia
CH : Chinese

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	A-2007-266-A	AUDIO BOARD, COMPLETE (DECK A) (WE605S, WR550Z)	
*	A-2007-339-A	AUDIO BOARD, COMPLETE (DECK A) (WE505)	
*	A-2007-479-A	AUDIO BOARD, COMPLETE (DECK A) (WA7ESA)	
*	A-2007-480-A	AUDIO BOARD, COMPLETE (DECK A) (WE705S)	
		*****	*****
		< CAPACITOR >	
C11	1-163-131-00	CERAMIC CHIP	390PF 5% 50V
C12	1-136-157-00	FILM	0.022uF 5% 50V
C13	1-124-234-00	ELECT	22uF 20% 16V
C18	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C21	1-163-131-00	CERAMIC CHIP	390PF 5% 50V
C22	1-136-157-00	FILM	0.022uF 5% 50V
C23	1-124-234-00	ELECT	22uF 20% 16V
C28	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C31	1-124-234-00	ELECT	22uF 20% 16V
C32	1-124-234-00	ELECT	22uF 20% 16V
C72	1-109-889-11	ELECT	1uF 20% 50V
		< CONNECTOR >	
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD	
CNJ72	1-764-902-11	CONNECTOR, FFC/FPC 4P	
* CNP30	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P (WE505, WE705S)	
* CNP32	1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P	
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P	
		< IC >	
IC31	8-759-106-02	IC uPC4570G2	
		< JUMPER RESISTOR >	
JW1	1-216-295-00	METAL CHIP	0 5% 1/10W
JW51	1-216-296-00	METAL CHIP	0 5% 1/8W
JW52	1-216-296-00	METAL CHIP	0 5% 1/8W
JW53	1-216-296-00	METAL CHIP	0 5% 1/8W
JW54	1-216-296-00	METAL CHIP	0 5% 1/8W

Ref. No.	Part No.	Description	Remark
JW101	1-216-295-00	METAL CHIP	0 5% 1/10W

(WE505,WE705S)

< TRANSISTOR >

Q71 8-729-216-22 TRANSISTOR 2SA1162-G

< CAPACITOR >

< RESISTOR >

R11 1-216-099-00 METAL CHIP

120K 5% 1/10W

R12 1-216-025-91 METAL GLAZE

100 5% 1/10W

R13 1-216-100-00 METAL GLAZE

130K 5% 1/10W

R14 1-216-069-00 METAL CHIP

6.8K 5% 1/10W

R14 1-216-068-00 METAL CHIP

6.2K 5% 1/10W

(WA7ESA,WE705S)

R21 1-216-099-00 METAL CHIP

120K 5% 1/10W

R22 1-216-025-91 METAL GLAZE

100 5% 1/10W

R23 1-216-100-00 METAL GLAZE

130K 5% 1/10W

R24 1-216-069-00 METAL CHIP

6.8K 5% 1/10W

(WA7ESA,WE705S)

R24 1-216-068-00 METAL CHIP

6.2K 5% 1/10W

(WE505,WE605S,WR550Z)

R31 1-216-033-00 METAL CHIP

220 5% 1/10W

R32 1-216-033-00 METAL CHIP

220 5% 1/10W

R71 1-216-082-00 METAL GLAZE

24K 5% 1/10W

R72 1-216-081-00 METAL CHIP

22K 5% 1/10W

R73 1-216-089-91 METAL GLAZE

47K 5% 1/10W

R74 1-216-089-91 METAL GLAZE

47K 5% 1/10W

RV11 1-241-761-11 RES, ADJ, CARBON 1K (PB LEVEL L)

RV21 1-241-761-11 RES, ADJ, CARBON 1K (PB LEVEL R)

RV71 1-241-630-11 RES, ADJ, CARBON 10K

(TAPE SPEED(NORMAL))

RV72 1-241-630-11 RES, ADJ, CARBON 10K (TAPE SPEED(HIGH))

Ref. No. Part No. Description Remark

* A-2007-040-A AUDIO BOARD, COMPLETE (DECK B) *****

< CAPACITOR >

C11 1-163-131-00 CERAMIC CHIP

390PF 5% 50V

C12 1-136-157-00 FILM

0.022uF 5% 50V

C13 1-124-234-00 ELECT

22uF 20% 16V

C18 1-163-251-11 CERAMIC CHIP

100PF 5% 50V

C21 1-163-131-00 CERAMIC CHIP

390PF 5% 50V

C22 1-136-157-00 FILM

0.022uF 5% 50V

C23 1-124-234-00 ELECT

22uF 20% 16V

C28 1-163-251-11 CERAMIC CHIP

100PF 5% 50V

C31 1-124-234-00 ELECT

22uF 20% 16V

C32 1-124-234-00 ELECT

22uF 20% 16V

C72 1-109-889-11 ELECT

1uF 20% 50V

< TRANSISTOR >

C56 1-164-505-11 CERAMIC CHIP

2.2uF 16V

C57 1-164-346-11 CERAMIC CHIP

1uF 16V

C71 1-164-346-11 CERAMIC CHIP

1uF 16V

C80 1-124-234-00 ELECT

22uF 20% 16V

C81 1-164-232-11 CERAMIC CHIP

0.01uF 50V

C82 1-136-157-00 FILM

0.022uF 5% 50V

C83 1-164-004-11 CERAMIC CHIP

0.1uF 10% 25V

C84 1-136-478-11 FILM

470PF 5% 630V

C85 1-136-433-11 FILM

100PF 5% 630V

C86 1-163-143

MAIN DIRECTION HEADPHONE PANEL

POWER SWITCH TRANSFORMER VOL

MAIN DIRECTION HEADPHONE PANEL

POWER SWITCH TRANSFORMER VOL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark			
* CN807	1-568-954-11	PIN, CONNECTOR 5P		J502	1-568-519-41	JACK, LARGE TYPE (PHONES)		R106	1-247-842-11	CARBON	3K	5%	1/4W	R524	1-249-425-11	CARBON	4.7K	5% 1/4W
		< CONNECTOR >		* J801	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5) (CONTROL A) (WE605S,WE705S)		R107	1-249-417-11	CARBON	1K	5%	1/4W	R525	1-249-425-11	CARBON	4.7K	5% 1/4W
CNP802	1-770-247-11	SOCKET, CONNECTOR 41P		* J802	1-764-188-11	JACK (SMALL TYPE) (DIA. 3.5) (CONTROL A) (WE605S,WE705S)		R108	1-249-424-11	CARBON	3.9K	5%	1/4W	R526	1-249-441-11	CARBON	100K	5% 1/4W
		< DIODE >				< FILTER >		R109	1-249-429-11	CARBON	10K	5%	1/4W	R527	1-249-441-11	CARBON	100K	5% 1/4W
D101	8-719-933-33	DIODE	HZS6A1L	LPF101	1-233-271-11	FILTER, LOW PASS		R110	1-249-425-11	CARBON	4.7K	5%	1/4W	R528	1-247-852-11	CARBON	7.5K	5% 1/4W
D201	8-719-933-33	DIODE	HZS6A1L	LPF201	1-233-271-11	FILTER, LOW PASS		R111	1-249-421-11	CARBON	2.2K	5%	1/4W	R531	1-249-437-11	CARBON	47K	5% 1/4W
D521	8-719-987-63	DIODE	1N4148M			< TRANSISTOR >		R112	1-249-430-11	CARBON	12K	5%	1/4W	R532	1-249-437-11	CARBON	47K	5% 1/4W
D522	8-719-987-63	DIODE	1N4148M					R113	1-249-417-11	CARBON	1K	5%	1/4W	R533	1-249-437-11	CARBON	47K	5% 1/4W
D601	8-719-987-63	DIODE	1N4148M (WA7ESA,WE505,WE705S)					R114	1-249-421-11	CARBON	2.2K	5%	1/4W					
D602	8-719-987-63	DIODE	1N4148M (WA7ESA,WE505,WE705S)	Q101	8-729-900-74	TRANSISTOR	DTC143TS	R115	1-249-433-11	CARBON	22K	5%	1/4W	R601	1-247-807-31	CARBON	100	5% 1/4W
D701	8-719-024-99	DIODE	11ES2-NTA2B	Q102	8-729-922-37	TRANSISTOR	2SD2144S	R116	1-249-423-11	CARBON	3.3K	5%	1/4W	R602	1-247-807-31	CARBON	100	5% 1/4W
D702	8-719-024-99	DIODE	11ES2-NTA2B	Q201	8-729-900-74	TRANSISTOR	DTC143TS	R117	1-249-429-11	CARBON	10K	5%	1/4W	R603	1-249-433-11	CARBON	22K	5% 1/4W
D703	8-719-024-99	DIODE	11ES2-NTA2B	Q202	8-729-922-37	TRANSISTOR	2SD2144S	R118	1-249-409-11	CARBON	220	5%	1/4W	R604	1-249-433-11	CARBON	22K	5% 1/4W
D704	8-719-024-99	DIODE	11ES2-NTA2B	Q501	8-729-119-76	TRANSISTOR	2SA1175-HFE	R119	1-249-417-11	CARBON	1K	5%	1/4W	R605	1-249-430-11	CARBON	12K	5% 1/4W
D705	8-719-987-63	DIODE	1N4148M	Q502	8-729-620-05	TRANSISTOR	2SC2603-EF	R120	1-249-437-11	CARBON	47K	5%	1/4W	R606	1-249-430-11	CARBON	12K	5% 1/4W
D706	8-719-987-63	DIODE	1N4148M	Q503	8-729-620-05	TRANSISTOR	2SC2603-EF	R121	1-249-437-11	CARBON	47K	5%	1/4W	R607	1-247-858-11	CARBON	13K	5% 1/4W
D707	8-719-024-99	DIODE	11ES2-NTA2B	Q601	8-729-900-80	TRANSISTOR	DTC114ES	R201	1-249-429-11	CARBON	10K	5%	1/4W	R608	1-247-858-11	CARBON	13K	5% 1/4W
D708	8-719-987-63	DIODE	1N4148M	Q602	8-729-801-93	TRANSISTOR	2SD1387	R202	1-247-887-00	CARBON	220K	5%	1/4W	R609	1-247-858-11	CARBON	13K	5% 1/4W
D709	8-719-933-33	DIODE	HZS6A1L	Q603	8-729-801-93	TRANSISTOR	2SD1387	R203	1-249-441-11	CARBON	100K	5%	1/4W	R610	1-247-858-11	CARBON	13K	5% 1/4W
D710	8-719-933-33	DIODE	HZS6A1L	Q604	8-729-900-80	TRANSISTOR	DTC114ES (WE505,WE705S)	R204	1-249-420-11	CARBON	1.8K	5%	1/4W	R613	1-249-422-11	CARBON	2.7K	5% 1/4W
D711	8-719-933-33	DIODE	HZS6A1L	Q605	8-729-119-76	TRANSISTOR	2SA1175-HFE (WE505,WE705S)	R205	1-249-423-11	CARBON	3.3K	5%	1/4W	R614	1-249-422-11	CARBON	2.7K	5% 1/4W
D712	8-719-933-38	DIODE	HZS6B3L	Q606	8-729-900-80	TRANSISTOR	DTC114ES	R206	1-247-842-11	CARBON	3K	5%	1/4W	R615	1-247-854-11	CARBON	9.1K	5% 1/4W
D713	8-719-987-63	DIODE	1N4148M	Q701	8-729-141-83	TRANSISTOR	2SB1094-LK	R207	1-249-417-11	CARBON	1K	5%	1/4W	R616	1-247-854-11	CARBON	9.1K	5% 1/4W
D714	8-719-987-63	DIODE	1N4148M	Q702	8-729-209-15	TRANSISTOR	2SD2012	R208	1-249-424-11	CARBON	3.9K	5%	1/4W	R617	1-249-429-11	CARBON	10K	5% 1/4W
D715	8-719-987-63	DIODE	1N4148M	Q703	8-729-141-83	TRANSISTOR	2SB1094-LK	R210	1-249-425-11	CARBON	4.7K	5%	1/4W	R618	1-249-421-11	CARBON	2.2K	5% 1/4W
D716	8-719-000-78	DIODE	UZL-7L2	Q704	8-729-620-05	TRANSISTOR	2SC2603-EF	R211	1-249-421-11	CARBON	2.2K	5%	1/4W	R619	1-249-429-11	CARBON	10K	5% 1/4W
D801	8-719-987-63	DIODE	1N4148M	Q705	8-729-900-80	TRANSISTOR	DTC114ES (WA7ESA,WE605S,WR550Z)	R212	1-249-430-11	CARBON	12K	5%	1/4W	R620	1-249-421-11	CARBON	2.2K	5% 1/4W
D802	8-719-987-63	DIODE	1N4148M	Q706	8-729-900-80	TRANSISTOR	DTC114ES (WA7ESA,WE605S,WR550Z)	R213	1-249-417-11	CARBON	1K	5%	1/4W	R621	1-249-435-11	CARBON	33K	5% 1/4W
D803	8-719-987-63	DIODE	1N4148M	Q707	8-729-119-76	TRANSISTOR	2SA1175-HFE	R214	1-249-421-11	CARBON	2.2K	5%	1/4W	R622	1-247-848-11	CARBON	5.1K	5% 1/4W
D804	8-719-987-63	DIODE	1N4148M	Q708	8-729-140-04	TRANSISTOR	2SB1116A-L	R215	1-249-433-11	CARBON	22K	5%	1/4W	R623	1-249-437-11	CARBON	47K	5% 1/4W
D805	8-719-987-63	DIODE	1N4148M (WE605S,WE705S)	Q709	8-729-224-62	TRANSISTOR	2SK246-GR (WA7ESA)	R216	1-249-423-11	CARBON	3.3K	5%	1/4W	R624	1-249-437-11	CARBON	47K	5% 1/4W
D901	8-719-313-43	LED	SEL6210S-TH10 (AUTO REC LEVEL)	Q801	8-729-900-89	TRANSISTOR	DTC144ES	R217	1-249-429-11	CARBON	10K	5%	1/4W	R625	1-249-437-11	CARBON	(WE505,WE705S)	
D902	8-719-313-43	LED	SEL6210S-TH10 (SYNCHRO) (WE605S,WE705S)	Q802	8-729-900-74	TRANSISTOR	DTC143TS (WA7ESA,WE605S,WR550Z)	R218	1-249-409-11	CARBON	220	5%	1/4W	R701	1-249-414-11	CARBON	560	5% 1/4W
				Q803	8-729-620-05	TRANSISTOR	2SC2603-EF (WE605S,WE705S)	R219	1-249-417-11	CARBON	1K	5%	1/4W	R702	1-249-429-11	CARBON	10K	5% 1/4W
						< IC >		R220	1-249-437-11	CARBON	47K	5%	1/4W	R703	1-249-419-11	CARBON	(WA7ESA,WE605S,WR550Z)	
IC501	8-752-075-27	IC	CXA1878Q					R221	1-249-437-11	CARBON	47K	5%	1/4W	R704	1-249-425-11	CARBON	4.7K	5% 1/4W
IC502	8-759-634-51	IC	M5218AP					R										

MAIN DIRECTION HEADPHONE PANEL

POWER SWITCH TRANSFORMER VOL

MAIN DIRECTION HEADPHONE PANEL POWER SWITCH

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R718	1-249-436-11	CARBON	39K 5% 1/4W	R844	1-249-421-11	CARBON	2.2K 5% 1/4W	R943	1-249-422-11	CARBON	2.7K 5% 1/4W	S942	1-554-303-21	SWITCH, TACTILE (RMS/START)	
R719	1-249-430-11	CARBON	12K 5% 1/4W	R845	1-247-874-11	CARBON	62K 5% 1/4W	R944	1-249-424-11	CARBON	3.9K 5% 1/4W	S943	1-554-303-21	SWITCH, TACTILE (CHECK)	
△ R720	1-219-136-11	FUSIBLE	0.22 10% 1/4W F	R846	1-247-866-11	CARBON	30K 5% 1/4W	R945	1-249-427-11	CARBON	6.8K 5% 1/4W	S944	1-554-303-21	SWITCH, TACTILE (SET)	
R721	1-249-415-11	CARBON	680 5% 1/4W (WA7ESA)	R848	1-247-852-11	CARBON	7.5K 5% 1/4W	R946	1-249-431-11	CARBON	15K 5% 1/4W	S945	1-554-303-21	SWITCH, TACTILE (AUTO CAL/START)	
R721	1-249-419-11	CARBON	1.5K 5% 1/4W (EXCEPT WA7ESA)	R849	1-249-429-11	CARBON	10K 5% 1/4W	R947	1-249-437-11	CARBON	47K 5% 1/4W	S946	1-554-303-21	SWITCH, TACTILE (HIGH/NORMAL)	
△ R722	1-219-137-11	FUSIBLE	0.33 10% 1/4W F	R850	1-249-429-11	CARBON	10K 5% 1/4W					S947	1-762-609-11	SWITCH, SLIDE (DIRECTION MODE)	
△ R723	1-219-137-11	FUSIBLE	0.33 10% 1/4W F	R851	1-249-429-11	CARBON	10K 5% 1/4W								< TEST PIN >
R724	1-249-412-11	CARBON	390 5% 1/4W (WA7ESA)	R852	1-249-429-11	CARBON	10K 5% 1/4W	RV101	1-241-630-11	RES, ADJ. CARBON 10K (DOLBY LEVEL L)		* TP801	1-560-060-00	PIN, CONNECTOR 2P	
R805	1-249-429-11	CARBON	10K 5% 1/4W	R853	1-249-434-11	CARBON	27K 5% 1/4W	RV201	1-241-630-11	RES, ADJ. CARBON 10K (DOLBY LEVEL R)					< INDICATOR TUBE >
R806	1-249-429-11	CARBON	10K 5% 1/4W	R854	1-249-434-11	CARBON	27K 5% 1/4W	RV601	1-241-765-11	RES, ADJ. CARBON 22K (PITCH CONTROL)		VFD901	1-517-263-11	INDICATOR TUBE, FLUORESCENT	
R807	1-249-429-11	CARBON	10K 5% 1/4W	R855	1-249-434-11	CARBON	27K 5% 1/4W								< VIBRATOR >
R808	1-249-429-11	CARBON	10K 5% 1/4W	R856	1-249-434-11	CARBON	27K 5% 1/4W	RV901	1-241-797-11	RES, VAR, CARBON 20K (AUTO REC LEVEL)		X801	1-579-175-11	VIBRATOR, CERAMIC (10MHz)	
R809	1-249-441-11	CARBON	100K 5% 1/4W	R857	1-249-421-11	CARBON	2.2K 5% 1/4W	RV902	1-225-173-11	RES, VAR, CARBON 50K (PITCH CONTROL)		*****	*****	*****	*****
R810	1-249-417-11	CARBON	1K 5% 1/4W	R858	1-249-421-11	CARBON	2.2K 5% 1/4W								
R811	1-249-433-11	CARBON	22K 5% 1/4W					△ S001	1-762-581-11	SWITCH, AC POWER PUSH (1 KEY) (POWER)		* 1-634-841-14	LEAF SW BOARD (DECK A) (WA7ESA,WE705S)		
R812	1-249-433-11	CARBON	22K 5% 1/4W									* 1-638-020-11	LEAF SW BOARD (DECK A) (WE505,WE605S,WR550Z)		
R813	1-247-807-31	CARBON	100 5% 1/4W	R862	1-249-441-11	CARBON	100K 5% 1/4W								< CONNECTOR >
R814	1-249-433-11	CARBON	22K 5% 1/4W	R863	1-247-807-31	CARBON	100 5% 1/4W	S801	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)					
R815	1-249-435-11	CARBON	33K 5% 1/4W	R901	1-249-413-11	CARBON	470 5% 1/4W	S911	1-554-303-21	SWITCH, TACTILE (■ CLEAR)					
R816	1-249-441-11	CARBON	100K 5% 1/4W	R902	1-249-413-11	CARBON	470 5% 1/4W	S912	1-554-303-21	SWITCH, TACTILE (▷ FRONT)					
R817	1-249-426-11	CARBON	5.6K 5% 1/4W					S913	1-554-303-21	SWITCH, TACTILE (◁ BACK)					
R818	1-249-422-11	CARBON	2.7K 5% 1/4W	R903	1-249-441-11	CARBON	100K 5% 1/4W	S914	1-554-303-21	SWITCH, TACTILE (◀)					
R819	1-249-428-11	CARBON	8.2K 5% 1/4W	R904	1-247-807-31	CARBON	100 5% 1/4W	S915	1-554-303-21	SWITCH, TACTILE (▶)		* CNP81	1-568-850-11	SOCKET, CONNECTOR 7P (WE505,WE605S,WR550Z)	
R820	1-249-428-11	CARBON	8.2K 5% 1/4W	R911	1-249-418-11	CARBON	1.2K 5% 1/4W	S916	1-554-303-21	SWITCH, TACTILE (REC)		* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P (WA7ESA,WE705S)	
R821	1-249-430-11	CARBON	12K 5% 1/4W					S917	1-554-303-21	SWITCH, TACTILE (RESET)					
R822	1-247-852-11	CARBON	7.5K 5% 1/4W	R912	1-249-420-11	CARBON	1.8K 5% 1/4W	S918	1-554-303-21	SWITCH, TACTILE (MEMORY)					
R823	1-249-425-11	CARBON	4.7K 5% 1/4W	R913	1-249-422-11	CARBON	2.7K 5% 1/4W	S921	1-554-303-21	SWITCH, TACTILE (■)					
R824	1-249-425-11	CARBON	4.7K 5% 1/4W	R914	1-249-424-11	CARBON	3.9K 5% 1/4W	S922	1-554-303-21	SWITCH, TACTILE (PAUSE)		IC81	8-749-924-10	IC NJL5165K-B (H1)	
R825	1-249-429-11	CARBON	10K 5% 1/4W	R915	1-249-427-11	CARBON	6.8K 5% 1/4W	S923	1-554-303-21	SWITCH, TACTILE (▷)		IC82	8-749-924-10	IC NJL5165K-B (H1) (WA7ESA,WE705S)	
R826	1-249-429-11	CARBON	10K 5% 1/4W	R916	1-249-431-11	CARBON	15K 5% 1/4W								< RESISTOR >
R827	1-249-425-11	CARBON	4.7K 5% 1/4W (WE605S,WE705S)	R917	1-249-437-11	CARBON	47K 5% 1/4W	S924	1-554-303-21	SWITCH, TACTILE (◁)					
R828	1-249-429-11	CARBON	10K 5% 1/4W (WE605S,WE705S)	R921	1-249-418-11	CARBON	1.2K 5% 1/4W	S925	1-554-303-21	SWITCH, TACTILE (REC MUTE)					
R829	1-249-393-11	CARBON	10 5% 1/4W (WE605S,WE705S)	R922	1-249-420-11	CARBON	1.8K 5% 1/4W	S926	1-554-303-21	SWITCH, TACTILE (◀/-RMS+)		R84	1-249-417-11	CARBON	1K 5% 1/4W
R830	1-249-421-11	CARBON	2.2K 5% 1/4W	R923	1-249-422-11	CARBON	2.7K 5% 1/4W	S927	1-554-303-21	SWITCH, TACTILE (▶/-RMS+)		R85	1-249-408-11	CARBON	180 5% 1/4W
R831	1-249-421-11	CARBON	2.2K 5% 1/4W	R924	1-249-424-11	CARBON	3.9K 5% 1/4W	S928	1-554-118-00	SWITCH, PUSH (1 KEY) (PITCH CONTROL)		R86	1-249-408-11	CARBON	180 5% 1/4W
R832	1-249-434-11	CARBON	27K 5% 1/4W	R925	1-249-427-11	CARBON	6.8K 5% 1/4W								(WA7ESA,WE705S)
R833	1-249-434-11	CARBON	27K 5% 1/4W (WA7ESA,WE705S)	R926	1-249-431-11	CARBON	15K 5% 1/4W	S931	1-554-303-21	SWITCH, TACTILE (RESET)					
R834	1-247-887-00	CARBON	220K 5% 1/4W	R927	1-249-437-11	CARBON	47K 5% 1/4W	S932	1-554-303-21	SWITCH, TACTILE (MEMORY)					
R835	1-247-887-00	CARBON	220K 5% 1/4W	R931	1-249-418-11	CARBON	1.2K 5% 1/4W	S933	1-554-303-21	SWITCH, TACTILE (FADER) (WE605S,WE705S)					
R836	1-247-887-00	CARBON	220K 5% 1/4W	R932	1-249-420-11	CARBON	1.8K 5% 1/4W	S934	1-554-303-21	SWITCH, TACTILE (ARL) (WE605S,WE705S)					
R837	1-247-887-00	CARBON	220K 5% 1/4W	R933	1-249-422-11	CARBON	2.7K 5% 1/4W	S935	1-554-303-21	SWITCH, TACTILE (SYNCHRO) (WE605S,WE705S)					
R838	1-249-422-11	CARBON	2.7K 5% 1/4W	R934	1-249-424-11	CARBON	3.9K 5% 1/4W								
R839	1-249-422-11	CARBON	2.7K 5% 1/4W					S							

LEAF SW (DECK B)

Ref. No.	Part No.	Description	Remark
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P (WA7ESA,WE705S)	
		< IC >	
IC81	8-749-924-10	IC NJL5165K-B (H1)	
IC82	8-749-924-10	IC NJL5165K-B (H1) (WA7ESA,WE705S)	
		< RESISTOR >	
R81	1-249-414-11	CARBON 560 5% 1/4W	
R82	1-247-818-11	CARBON 300 5% 1/4W	
R83	1-247-834-11	CARBON 1.3K 5% 1/4W	
R84	1-249-417-11	CARBON 1K 5% 1/4W	
R85	1-249-408-11	CARBON 180 5% 1/4W	
R86	1-249-408-11	CARBON 180 5% 1/4W (WA7ESA,WE705S)	
		< SWITCH >	
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)	
S82	1-571-281-21	SWITCH, LEAF (Cr02)	
S83	1-571-281-21	SWITCH, LEAF (METAL)	
S84	1-571-281-21	SWITCH, LEAF (ERASER PROOF (SIDE A))	
S85	1-571-281-21	SWITCH, LEAF (ERASER PROOF (SIDE A))	
S86	1-571-281-21	SWITCH, LEAF (HALF)	
		MISCELLANEOUS	
△ 9	1-551-188-99	CORD, POWER (E)	
△ 9	1-558-945-21	CORD, POWER (POLAR.SPT-1) (US,CND,PA)	
△ 9	1-575-651-21	CORD, POWER (AEP,G,MY,SP,CH)	
△ 9	1-696-586-11	CORD, POWER (UK)	
△ 9	1-696-845-11	CORD, POWER (AUS)	
△ 10	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
△ 10	1-569-008-21	ADAPTER, CONVERSION 2P (CH)	
65	1-769-882-11	WIRE (FLAT TYPE) (7 CORE) (WE505,WE605S, WR550Z)	
65	1-769-912-11	WIRE (FLAT TYPE) (9 CORE) (WA7ESA,WE705S)	
74	1-769-598-11	WIRE (FLAT TYPE) (41 CORE)	
121	1-638-983-11	MOTOR FLEXIBLE BOARD	
HP101	A-2004-526-A	DECK ASSY, HEAD (PLAYBACK) (WE505, WE605S,WR550Z)	
HP101	A-2004-548-A	DECK ASSY, HEAD (PLAYBACK) (WA7ESA, WE705S)	
HRPE101A-2004-527-A		DECK ASSY, HEAD (RECORD/PLAYBACK/ERASE)	
M1	X-3365-377-2	MOTOR ASSY (CAPSTAN)	
M2	X-3365-501-2	MOTOR ASSY (REEL)	
△ S701	1-692-155-11	SELECTOR, POWER VOLTAGE (VOLTAGE SELECTOR) (E)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
HARDWARE LIST			

#1	7-682-548-04	SCREW +BVTT 3X8 (S)	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#4	7-685-134-19	SCREW (+ PTPWH) (2.6X8)	
#5	7-621-773-95	SCREW +BVTT 2.6X6 (S)	
#6	7-621-775-00	SCREW +B 2.6X3	
#7	7-627-556-08	SCREW +P 2.6X2.8	